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本書では、PH450G/SC450G/ISC450Gの取扱説明書に記載するHART通信に対する補足として、取扱いに関する注意事項を記載しています。

各機器のパラメータ詳細に関しては、各々の取扱説明書に記載する内容をご確認のうえ、HART通信をご使用ください。

HART は HART 通信協会（HART Communication Foundation）の登録商標です。

■ HART通信とは

HART 通信は、4-20 mA DC のアナログ信号に重畳された HART 通信波形を使用し、稼働状態（オンライン）の PH450G/SC450G/ISC450G と設定ツール（※）との相互通信を遠隔で行うものです。

※：設定ツールには、FieldMate、PRM、HHT 携帯型通信ターミナル（475 フィールド・コミュニケーター）などを用いることができます。設定ツールは最新 Version のご使用を推奨します。

■ DDファイルのダウンロードとインストール

PH450G/SC450G/ISC450G と設定ツール間で HART 通信を行うには、DD (Device Description) ファイルを設定ツールにインストールする必要があります。DD ファイルは、HART 通信の内容や PH450G/SC450G/ISC450G 固有のメニュー構成を含んだファイルです。FieldMate には、FieldMate 販売時点における最新の DD ファイルが提供されています。最新の DD ファイルは、以下の URL からダウンロードすることができます（※）。

横河電機 HP : <http://www.yokogawa.com/an/download/an-dl-fieldbus-001en.htm>

※：URL は予告無く変更されることがあります。上記 URL にアクセスできない場合は、当社各営業拠点またはご購入の代理店にお問い合わせください。

● FieldMateを使用するには

FieldMate を使用する場合は、Device Files のレビジョンに注意が必要です。

・PH450G/SC450G/ISC450G と FieldMate、DD のレビジョン対応表

機器	製品表示	FieldMate		Field Communicator用DD	
	機器バージョン	Device Files レビジョン	Device Files内 DDレビジョン	対応する機器レビジョン	DD レビジョン
PH450G	02	R3.05 以降	2	2	2
SC450G					
ISC450G					

機器バージョンは、PH450G/SC450G/ISC450G 表示器のメイン画面の  を押して、図1の画面で確認することができます。

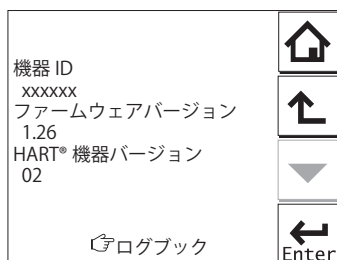


図1 ファームウェアバージョンの表示画面

● DDファイルのインストール

DD ファイルのインストール方法については、お手持ちの設定ツール (FieldMate 等) の取扱説明書を参照してください。ここでは、当社の設定ツールである FieldMate に最新の DD ファイルをインストールする手順を示します。なお、ここでは、FieldMate R2.02.00 でのインストール方法を想定しています。FieldMate のバージョンアップによりインストール方法が変更されることがあります。その際は、FieldMate の最新取扱説明書を参照ください。

【DDファイルの入手と解凍】

DD ファイルは、当社、横河電機のホームページより入手してください。DD ファイルの配布形式は、圧縮形式 (zip 形式) です。DD ファイルを HART 協会から入手した場合は、dd.zip のファイル名で入手できます。

【FieldMateのDDファイルのインストール】

入手した最新の DD ファイルを、FieldMate の取扱説明書に従い、インストールしてください。

【DDファイルレビジョンと機器レビジョンに関する注意点】

PH450G/SC450G/ISC450G の HART 通信を使用するには、PH450G/SC450G/ISC450G の機器レビジョンに対応した、DD ファイルが必要です。PH450G/SC450G/ISC450G の機器レビジョンと DD ファイルのレビジョンは以下の要領で確認することができます。使用前には必ずご確認ください。

(1) PH450G/SC450G/ISC450G の機器レビジョンの確認

画面の詳細設定画面または、設定ツールのズーム画面を選択します。
NEXT で Hart Device Revision に機器レビジョン番号を表示させます。

(2) DD ファイルのレビジョンの確認

DD ファイルは、0102.xxxdd などのようなファイル名で保存されています。
ファイル名の上位 2 桁の数値 (上記の場合 01) が機器レビジョン、下位 2 桁の数値 (上記の場合 02) が DD レビジョンを表しています。
機器レビジョンに適合した、最新レビジョンの DD ファイルを使用してください。

● 接続方法

設定ツールの接続端子と電源間に 250 Ω以上の負荷抵抗があれば、計器室、機器端子箱、伝送ループ内のどの中継端子に対しても接続して使用することができます。
設定ツールは負荷抵抗と並列に接続しますが、極性はありません。

■ HART通信パラメータと制限事項

HART 通信では、本体の画面とほぼ同一の設定が利用できます。

本項では、PH450G/SC450G/ISC450G と設定ツール間で HART 通信を行う場合のパラメータ一覧と表示および設定に関する注意事項を示します。パラメータの詳細に関しては、各々の取扱説明書を参照ください。

表は弊社 FieldMate を用いた内容で記載しています。FieldMate では使用する DTM によって、表示・設定が正しくできないパラメータがありますので、機器 DTM を使用した表示・設定を推奨いたします。ご使用にあたっては、表の Note 欄の注意事項をご参照ください。機器 DTM の起動および操作方法は FieldMate の取り扱い説明書を参照ください。

表中の R/W は表示／設定を示し、当該の項目でのパラメータ値の取扱いを示しています。

R：表示のみ可能、R/W：表示設定可能

■ 操作注意事項

本項は操作上注意していただきたいことを説明したものです。

● 設定ツールとPH450G/SC450G/ISC450Gでの操作

FieldMate などの設定ツールで操作しているときは、PH450G/SC450G/ISC450G で直接設定操作を行わないでください。

● パラメータの印刷やアップロード、ダウンロードなどの操作

PH450G/SC450G/ISC450G は大変多くのパラメータを保持しています。多くのパラメータにアクセスする動作では、数分かかることがあります。

■ 【PH450GのDD Onlineパラメータ一覧】（機器レビジョン2、DDレビジョン2）

注意

Built-in DTM を使用すると℃はツ-C、°Fはツ-F と表示されます。

Built-in DTM を使用すると正しく文字が表示されなかったり、正しく設定ができない場合があります。機器 DTM を使用するか、本体画面で設定（確認）してください。

表中 [] または [()] の表現があるものは、[] または [()] 内のパラメータ設定のときに有効な項目です。

PH450G	Parameter	R/W	Parameter Value	Unit	Note
Process Values	PV [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]	R	—	pH	
	SV	R	—	ツ-C ツ-F	注
	TV [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP, rH)]	R	—	mV	
Zoom					
Zoom sensor	Zero [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]	R	—	mV	
	Slope [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]	R	—	%	
	Sensor mV [Sensor type: pH, pH+ORP]	R	—	mV	
	ORP zero [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)]	R	—	mV	
	ORP slope [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)]	R	—	%	
	ORP sensor mV [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)]	R	—	mV	
	rH zero [Sensor type: pH+ORP (Meas type: rH, pH+rH)]	R	—	mV	
	rH slope [Sensor type: pH+ORP (Meas type: rH, pH+rH)]	R	—	%	
	rH sensor mV [Sensor type: pH+ORP (Meas type: rH, pH+rH)]	R	—	mV	
	Impedance 1 [Input 1 impedance: Low]	R	—	kOhm	
	Impedance 2 [Input 2 impedance: Low]	R	—	kOhm	

PH450G		Parameter	R/W	Parameter Value	Unit	Note
Zoom output	mA1 value	R	—	mA		
	mA2 value	R	—	mA		
	S1 perc	R	—	%		
	S2 perc	R	—	%		
	S3 perc	R	—	%		
	S4 perc	R	—	%		
Zoom device	Serial number	R	—			
	Software Revision	R	—			
	Device Revision	R	—			
Logbook	—	—	—			
Calib/wsah	—	—	—			
Commissioning						
Sensor setup	Sensor Type	R/W	pH ORP pH+ORP			Built-in DTM を使用すると pH + ORP が選択できません。
Measurement setup	Meas type [Sensor type: pH+ORP]	R/W	pH ORP pH+ORP rH+pH rH			Built-in DTM を使用すると pH + ORP、rH + pH が選択できません。
Temp setting	Temp sensor	R/W	Pt1000 Pt100 5K1 3K Balco 8k55 350 6K8 PTC10K			
	Temp unit	R/W	℃ ℉			
Temp compensation	Temp comp	R/W	Auto Manual			
	Man value	R/W	数値 -30.000000 ~ 140.000000 (Temp unit: ℃) -22.000000 ~ 284.000000 (Temp unit: ℉)	℃ ℉		注
	Ref temp	R/W	数値 0.000000 ~ 100.000000 (Temp unit: ℃) 32.000000 ~ 212.000000 (Temp unit: ℉)	℃ ℉		注
	Comp method [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP, rH)]	R/W	None TC Matrix NEN 6411			
	TC [Comp method: TC]	R/W	数値 -0.100000 ~ 0.100000 (Temp unit: ℃) -0.060000 ~ 0.060000 (Temp unit: ℉)	pH/℃ pH/℉		注
	ORP comp method [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)]	R/W	None TC			
	ORP TC [ORP comp method: TC]	R/W	数値 -10.000000 ~ 10.000000 (Temp unit: ℃) -6.000000 ~ 6.000000 (Temp unit: ℉)	mV/℃ mV/℉		注
Calib. Setting	Buffer set [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]	R/W	Nist DIN US User defined			
Zero/Slope units [Sensor type: pH]	Zero unit [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]	R/W	mV pH			
	Slope unit [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]	R/W	% mV/pH			

PH450G		Parameter	R/W	Parameter Value	Unit	Note
Limit and timing	Zero hi lim [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]	R/W	数值 0.000000 ~ 9.000000	pH [Zero unit: pH] mV [Zero unit: mV]		
	Zero lo lim [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]	R/W	数值 9.000000 ~ 0.000000	pH [Zero unit: pH] mV [Zero unit: mV]		
	Slope hi lim [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]	R/W	数值 59.160000 ~ 65.080000	mV/pH		
	Slope lo lim [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]	R/W	数值 41.410000 ~ 59.160000	mV/pH		
	ORP Zero hi lim [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)]	R/W	数值 0.000000 ~ 1500.000000	mV		
	ORP Zero lo lim [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)]	R/W	数值 -1500.000000 ~ 0.000000	mV		
	ORP Slope hi lim [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)]	R/W	数值 100.000000 ~ 110.000000	%		
	ORP Slope lo lim [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)]	R/W	数值 70.000000 ~ 100.000000	8		
	rH Zero hi lim [Sensor type: pH+ORP (Meas type: rH, pH+rH)]	R/W	数值 0.000000 ~ 1500.000000	mV		
	rH Zero lo lim [Sensor type: pH+ORP (Meas type: rH, pH+rH)]	R/W	数值 -1500.000000 ~ 0.000000	mV		
	rH Slope hi lim [Sensor type: pH+ORP (Meas type: rH, pH+rH)]	R/W	数值 100.000000 ~ 110.000000	%		
	rH Slope lo lim [Sensor type: pH+ORP (Meas type: rH, pH+rH)]	R/W	数值 70.000000 ~ 100.000000	8		
	Stab time	R/W	数值 2 ~ 30	s		
	Cal int	R/W	数值 1 ~ 250	d		
Zero/ Slope/ITP	Zero [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]	R/W	数值 4.000000 ~ 7.222200	pH [Zero unit: pH] mV [Zero unit: mV]		
	Slope [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]	R/W	数值 44.439999 ~ 62.200001	mV/pH		
	ITP [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]	R/W	数值 0.000000 ~ 14.000000	pH		
	ORP zero [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)]	R/W	数值 -111.110001 ~ 1111.109985	mV		
	ORP slope [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)]	R/W	数值 71.999001 ~ 102.220001	%		
	rH zero [Sensor type: pH+ORP (Meas type: rH, pH+rH)]	R/W	数值 -111.110001 ~ 1111.109985	mV		
	rH slope [Sensor type: pH+ORP (Meas type: rH, pH+rH)]	R/W	数值 71.999001 ~ 102.220001	%		

PH450G		Parameter	R/W	Parameter Value	Unit	Note
Impedance setting	Input 1 impedance		R/W	Low High		
	Imp. 1 low limit [Input 1 impedance: Low]		R/W	数値 1000.000000 ~ 1000000.000000	kOhm	Built-in DTM を使用すると 1000.0 ~ 1000.1 以外を入力するとエラーが発生し、入力できません。
	Imp. 1 high limit [Input 1 impedance: Low]		R/W	数値 1000.000000 ~ 1000000.000000	kOhm	Built-in DTM を使用すると 1000.0 ~ 1000.1 以外を入力するとエラーが発生し、入力できません。
	Input 2 impedance		R/W	Low High		
	Imp. 2 low limit [Input 2 impedance: Low]		R/W	数値 1000.000000 ~ 1000000.000000	kOhm	Built-in DTM を使用すると 1000.0 ~ 1000.1 以外を入力するとエラーが発生し、入力できません。
	Imp. 2 high limit [Input 2 impedance: Low]		R/W	数値 1000.000000 ~ 1000000.000000	kOhm	Built-in DTM を使用すると 1000.0 ~ 1000.1 以外を入力するとエラーが発生し、入力できません。
Output setup						
mA1 setup	Type		R/W	Off Control Output Simulate		
	Func [Type: Off]		R	Off		
	Func [Type: Control]		R/W	P PI PID		
	Param [Type: Control]		R/W	NONE PH [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)] TEMPERATURE ORP [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)] RH [Sensor type: pH+ORP (Meas type: rH, pH+rH)]		
	PID SP [Type: Control]		R/W	数値 制限なし	pH [Param: PH] ℃、℉ [Param: TEMPERATURE]	注
	PID Rng [Type: Control]		R/W	数値 0.001000 ~	mV [Param: ORP] rH [Param: RH]	
	PID Dir [Type: Control]		R/W	direct reverse		
	PID MR [Type: Control (Func: P)]		R/W	数値 0.000000 ~ 100.000000	%	
	PID I time [Type: Control (Func: PI, PID)]		R/W	数値 1.000000 ~ 3600.000000	s	
	PID D time [Type: Control (Func: PID)]		R/W	数値 0.000000 ~ 60.000000	s	
	Burn [Type: Control]		R/W	Off Low High		
	Expire time [Type: Control]		R/W	数値 0.000000 ~ 1800.000000	s	
	Func [Type: Output]		R/W	Linear Table		
	Param [Type: Output]		R/W	NONE PH [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)] TEMPERATURE ORP [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)] RH [Sensor type: pH+ORP (Meas type: rH, pH+rH)]		
	Lin 0% [Type: Output (Func: Linear)]		R/W	数値 制限なし	pH [Param: PH] ℃、℉ [Param: TEMPERATURE]	注
Lin 100% [Type: Output (Func: Linear)]		R/W	数値 制限なし	mV [Param: ORP] rH [Param: RH]		

PH450G	Parameter	R/W	Parameter Value	Unit	Note
	Burn [Type: Output]	R/W	Off Low High		
	Damping time [Type: Output]	R/W	数値 0.000000 ~ 3600.000000	s	
	Func [Type: Simulate]	R	Simulate		
	Percentage [Type: Simulate]	R/W	数値 -10.000000 ~ 110.000000	%	
mA2 setup	Type	R/W	Off Control Output Simulate		
	Func [Type: Off]	R	Off		
	Func [Type: Control]	R/W	P PI PID		
	Param [Type: Control]	R/W	NONE PH [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)] TEMPERATURE ORP [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)] RH [Sensor type: pH+ORP (Meas type: rH, pH+rH)]		
	PID SP [Type: Control]	R/W	数値 制限なし	pH [Param: PH] ℃、℉ [Param: TEMPERATURE]	注
	PID Rng [Type: Control]	R/W	数値 0.001000 ~	mV [Param: ORP] rH [Param: RH]	
	PID Dir [Type: Control]	R/W	direct reverse		
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000	%	
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000	s	
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000	s	
	Burn [Type: Control]	R/W	Off Low High		
	Expire time [Type: Control]	R/W	数値 0.000000 ~ 1800.000000	s	
	Func [Type: Output]	R/W	Linear Table		
	Param [Type: Output]	R/W	NONE PH [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)] TEMPERATURE ORP [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)] RH [Sensor type: pH+ORP (Meas type: rH, pH+rH)]		
	Lin 0% [Type: Output (Func: Linear)]	R/W	数値 制限なし	pH [Param: PH] ℃、℉ [Param: TEMPERATURE]	注
	Lin 100% [Type: Output (Func: Linear)]	R/W	数値 制限なし	mV [Param: ORP] rH [Param: RH]	
	Burn [Type: Output]	R/W	Off Low High		
	Damping time [Type: Output]	R/W	数値 0.000000 ~ 3600.000000	s	
	Func [Type: Simulate]	R	Simulate		
	Percentage [Type: Simulate]	R/W	数値 0.000000 ~ 100.000000	%	
S1 setup	Type	R/W	Off Control Alarm Fail Simulate HOLD Wash		

PH450G	Parameter	R/W	Parameter Value	Unit	Note
	Func [Type: Off]	R	Off		
	Func [Type: Control]	R/W	P PI PID		
	Param [Type: Control]	R/W	NONE PH [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)] TEMPERATURE ORP [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)] RH [Sensor type: pH+ORP (Meas type: rH, pH+rH)]		
	PID SP [Type: Control]	R/W	数値 制限なし	pH [Param: PH] ℃、℉ [Param: TEMPERATURE]	注
	PID Rng [Type: Control]	R/W	数値 0.001000 ~	mV [Param: ORP] rH [Param: RH]	
	PID Dir [Type: Control]	R/W	direct reverse		
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000	%	
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000	s	
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000	s	
	Analog output [Type: Control]	R/W	PF DC		
	Max freq [Type: Control (Analog output: PF)]	R/W	数値 1.000000 ~ 120.000000	p/m	
	DC time [Type: Control (Analog output: DC)]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Control]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Alarm]	R	Alarm		
	Param [Type: Alarm]	R/W	NONE PH [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)] TEMPERATURE ORP [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)] RH [Sensor type: pH+ORP (Meas type: rH, pH+rH)]		
	Alarm Sp [Type: Alarm]	R/W	数値 制限なし	pH [Param: PH] ℃、℉ [Param: TEMPERATURE] mV [Param: ORP] rH [Param: RH]	注
	Alarm dir. [Type: Alarm]	R/W	Low High		
	Alarm hyst. [Type: Alarm]	R/W	数値 0.000000 ~	pH [Param: PH] ℃、℉ [Param: TEMPERATURE] mV [Param: ORP] rH [Param: RH]	注
	Alarm delay [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Fail]	R/W	Hard + Soft Fail Hard Fail Only		Built-in DTM を使用す ると Hard + Soft Fail が 選択できません。 機器 DTM を使用する か、本体画面で設定し てください。
	Func [Type: Simulate]	R/W	ON/Off Percentage		
	Contact [Type: Simulate (Func: ON/OFF)]	R/W	ON OFF		
	Percentage [Type: Simulate (Func: percentage)]	R/W	数値 0.000000 ~ 100.000000	%	
	Func [Type: HOLD]	R	HOLD contact		

PH450G	Parameter	R/W	Parameter Value	Unit	Note
	Func [Type: Wash]	R	Wash		
	Inter. time [Type: Wash]	R/W	数値 0.100000 ~ 36.000000	h	
	Wash time [Type: Wash]	R/W	数値 0.100000 ~ 10.000000	min	
	Rec. time [Type: Wash]	R/W	数値 0.100000 ~ 10.000000	min	
	Man. wash [Type: Wash]	R/W	disable enable disabled + imp2 high enabled + imp2 high		Built-in DTM を使用すると disabled + imp2 high、enabled + imp2 high が選択できません。
	Cont. wash [Type: Wash]	R/W	disable enable		
S2 setup	Type	R/W	Off Control Alarm Fail Simulate HOLD Wash		
	Func [Type: Off]	R	Off		
	Func [Type: Control]	R/W	P PI PID		
	Param [Type: Control]	R/W	NONE PH [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)] TEMPERATURE ORP [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)] RH [Sensor type: pH+ORP (Meas type: rH, pH+rH)]		
	PID SP [Type: Control]	R/W	数値 制限なし	pH [Param: PH] ℃、℉ [Param: TEMPERATURE]	注
	PID Rng [Type: Control]	R/W	数値 0.001000 ~	mV [Param: ORP] rH [Param: RH]	
	PID Dir [Type: Control]	R/W	direct reverse		
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000	%	
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000	s	
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000	s	
	Analog output [Type: Control]	R/W	PF DC		
	Max freq [Type: Control (Analog output: PF)]	R/W	数値 1.000000 ~ 120.000000	p/m	
	DC time [Type: Control (Analog output: DC)]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Control]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Alarm]	R	Alarm		
	Param [Type: Alarm]	R/W	NONE PH [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)] TEMPERATURE ORP [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)] RH [Sensor type: pH+ORP (Meas type: rH, pH+rH)]		
	Alarm Sp [Type: Alarm]	R/W	数値 制限なし	pH [Param: PH] ℃、℉ [Param: TEMPERATURE] mV [Param: ORP] rH [Param: RH]	注
	Alarm dir. [Type: Alarm]	R/W	Low High		

PH450G	Parameter	R/W	Parameter Value	Unit	Note
	Alarm hyst. [Type: Alarm]	R/W	数値 0.000000 ~	pH [Param: PH] ℃-C、 ℃-F [Param: TEMPERATURE] mV [Param: ORP] rH [Param: RH]	注
	Alarm delay [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Fail]	R/W	Hard + Soft Fail Hard Fail Only		Built-in DTM を使用す ると Hard + Soft Fail が 選択できません。
	Func [Type: Simulate]	R/W	ON/Off Percentage		
	Contact [Type: Simulate (Func: ON/OFF)]	R/W	ON OFF		
	Percentage [Type: Simulate (Func: percentage)]	R/W	数値 0.000000 ~ 100.000000	%	
	Func [Type: HOLD]	R	HOLD contact		
	Func [Type: Wash]	R	Wash		
	Inter. time [Type: Wash]	R/W	数値 0.100000 ~ 36.000000	h	
	Wash time [Type: Wash]	R/W	数値 0.100000 ~ 10.000000	min	
	Rec. time [Type: Wash]	R/W	数値 0.100000 ~ 10.000000	min	
	Man. wash [Type: Wash]	R/W	disable enable disabled + imp2 high enabled + imp2 high		Built-in DTM を使用す ると disabled + imp2 high、 enabled + imp2 high が選択できません。
	Cont. wash [Type: Wash]	R/W	disable enable		
S3 setup	Type	R/W	Off Control Alarm Fail Simulate HOLD Wash		
	Func [Type: Off]	R	Off		
	Func [Type: Control]	R/W	P PI PID		
	Param [Type: Control]	R/W	NONE PH [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)] TEMPERATURE ORP [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)] RH [Sensor type: pH+ORP (Meas type: rH, pH+rH)]		
	PID SP [Type: Control]	R/W	数値 制限なし	pH [Param: PH] ℃-C、 ℃-F [Param: TEMPERATURE] mV [Param: ORP] rH [Param: RH]	注
	PID Rng [Type: Control]	R/W	数値 0.001000 ~		
	PID Dir [Type: Control]	R/W	direct reverse		
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000	%	
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000	s	
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000	s	
	Analog output [Type: Control]	R/W	PF DC		
	Max freq [Type: Control (Analog output: PF)]	R/W	数値 1.000000 ~ 120.000000	p/m	
	DC time [Type: Control (Analog output: DC)]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Control]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Alarm]	R	Alarm		

PH450G	Parameter	R/W	Parameter Value	Unit	Note
	Param [Type: Alarm]	R/W	NONE PH [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)] TEMPERATURE ORP [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)] RH [Sensor type: pH+ORP (Meas type: rH, pH+rH)]		
	Alarm Sp [Type: Alarm]	R/W	数値 制限なし	pH [Param: PH] ℃、℉ [Param: TEMPERATURE] mV [Param: ORP] rH [Param: RH]	注
	Alarm dir. [Type: Alarm]	R/W	Low High		
	Alarm hyst. [Type: Alarm]	R/W	数値 0.000000 ~	pH [Param: PH] ℃、℉ [Param: TEMPERATURE] mV [Param: ORP] rH [Param: RH]	注
	Alarm delay [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Fail]	R/W	Hard + Soft Fail Hard Fail Only		Built-in DTM を使用す ると Hard + Soft Fail が 選択できません。 機器 DTM を使用する か、本体画面で設定し てください。
	Func [Type: Simulate]	R/W	ON/Off Percentage		
	Contact [Type: Simulate (Func: ON/OFF)]	R/W	ON OFF		
	Percentage [Type: Simulate (Func: percentage)]	R/W	数値 0.000000 ~ 100.000000	%	
	Func [Type: HOLD]	R	HOLD contact		
	Func [Type: Wash]	R	Wash		
	Inter. time [Type: Wash]	R/W	数値 0.100000 ~ 36.000000	h	
	Wash time [Type: Wash]	R/W	数値 0.100000 ~ 10.000000	min	
	Rec. time [Type: Wash]	R/W	数値 0.100000 ~ 10.000000	min	
	Man. wash [Type: Wash]	R/W	disabled enabled disabled + imp2 high enabled + imp2 high		Built-in DTM を使用す ると disabled + imp2 high、enabled + imp2 highが選択できません。
	Cont. wash [Type: Wash]	R/W	disable enable		
S4 setup	Type	R/W	Off Control Alarm Fail Simulate HOLD Wash		
	Func [Type: Off]	R	Off		
	Func [Type: Control]	R/W	P PI PID		
	Param [Type: Control]	R/W	NONE PH [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)] TEMPERATURE ORP [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)] RH [Sensor type: pH+ORP (Meas type: rH, pH+rH)]		

PH450G	Parameter	R/W	Parameter Value	Unit	Note
	PID SP [Type: Control]	R/W	数値 制限なし	pH [Param: PH] ℃、℉ [Param: TEMPERATURE]	注
	PID Rng [Type: Control]	R/W	数値 0.001000 ~	mV [Param: ORP] rH [Param: RH]	
	PID Dir [Type: Control]	R/W	direct reverse		
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000	%	
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000	s	
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000	s	
	Analog output [Type: Control]	R/W	PF DC		
	Max freq [Type: Control (Analog output: PF)]	R/W	数値 1.000000 ~ 120.000000	p/m	
	DC time [Type: Control (Analog output: DC)]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Control]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Alarm]	R	Alarm		
	Param [Type: Alarm]	R/W	NONE PH [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)] TEMPERATURE ORP [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)] RH [Sensor type: pH+ORP (Meas type: rH, pH+rH)]		
	Alarm Sp [Type: Alarm]	R/W	数値 制限なし	pH [Param: PH] ℃、℉ [Param: TEMPERATURE] mV [Param: ORP] rH [Param: RH]	注
	Alarm dir. [Type: Alarm]	R/W	Low High		
	Alarm hyst. [Type: Alarm]	R/W	数値 0.000000 ~	pH [Param: PH] ℃、℉ [Param: TEMPERATURE] mV [Param: ORP] rH [Param: RH]	注
	Alarm delay [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Fail]	R/W	Hard + Soft Fail Hard Fail Only		Built-in DTM を使用す ると Hard + Soft Fail が 選択できません。
	Func [Type: Simulate]	R/W	ON/Off Percentage		
	Contact [Type: Simulate (Func: ON/OFF)]	R/W	ON OFF		
	Percentage [Type: Simulate (Func: percentage)]	R/W	数値 0.000000 ~ 100.000000	%	
	Func [Type: HOLD]	R	HOLD contact		
	Func [Type: Wash]	R	Wash		
	Inter. time [Type: Wash]	R/W	数値 0.100000 ~ 36.000000	h	
	Wash time [Type: Wash]	R/W	数値 0.100000 ~ 10.000000	min	
	Rec. time [Type: Wash]	R/W	数値 0.100000 ~ 10.000000	min	
	Man. wash [Type: Wash]	R/W	disabled enabled disabled + imp2 high enabled + imp2 high		Built-in DTM を使用す ると disabled + imp2 high、enabled + imp2 high が選択できません。
	Cont. wash [Type: Wash]	R/W	disable enable		

PH450G		Parameter	R/W	Parameter Value	Unit	Note
HOLD setup	HOLD L/F		R/W	Last Fixed		
	mA1 Fixed [HOLD L/F: Fixed]		R/W	数值 3.600000 ~ 21.000000	mA	
	mA2 Fixed [HOLD L/F: Fixed]		R/W	数值 3.600000 ~ 21.000000	mA	
	HOLD dur. Cal/wash		R/W	disabled enabled		
Error config	pH too high [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]		R/W	Off Warn Fail		
	pH too low [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]		R/W	Off Warn Fail		
	Temp too high		R/W	Off Warn Fail		
	Temp too low		R/W	Off Warn Fail		
	Matrix config [Sensor type: pH] or [Sensor type: pH+ORP (Meas type: pH, pH+rH, pH+ORP)]		R/W	Warn Fail		
	ORP too high [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)]		R/W	Off Warn Fail		
	ORP too low [Sensor type: ORP] or [Sensor type: pH+ORP (Meas type: ORP, pH+ORP)]		R/W	Off Warn Fail		
	rH too high [Sensor type: pH+ORP (Meas type: rH, pH+rH)]		R/W	Off Warn Fail		
	rH too low [Sensor type: pH+ORP (Meas type: rH, pH+rH)]		R/W	Off Warn Fail		
	Cal time exc		R/W	Off Warn Fail		
	Wash Error		R/W	Off Warn Fail		
	Imp. 1 high		R/W	Off Warn Fail		
	Imp. 1 low		R/W	Off Warn Fail		
	Imp. 2 high		R/W	Off Warn Fail		
Imp. 2 low		R/W	Off Warn Fail			

PH450G	Parameter	R/W	Parameter Value	Unit	Note
Logbook config	Sensor logbook	R/W	Error on Error off T.C. Zero lo lim Zero hi lim Slope lo lim Slope hi lim Stab. Time Imp.1 lo lim Imp.1 hi lim Imp.2 lo lim Imp.2 hi lim		
	mA logbook	R/W	mA setup Hold fixed value PID setpoint PID range Manual reset PID I time PID D time Burn Linear % Damping time Expire time		
	Contact logbook	R/W	Contact setup PID setpoint PID range Manual reset PID I time PID D time Control type DC period time Max pulse freq. Alarm setpoint Alarm direction Alarm hysteresis Alarm delay time Expire time Wash setup		
	Erase logbook	R/W	Calibration Sensor Predictive Maint All logbook		選択後、実行するか最終確認されます。
	Warn logbook full	R/W	No Yes		
Basic setup	Tag	R/W	英数字		
	Distributor	R	—		
Device information	Model	R	—		
	Descriptor	R/W	英数字		
	Message	R/W	英数字		
	Poll addr	R/W	数値 0 ~ 15		Built-in DTM を使用すると、正しく設定できません。
	Num resp preams	R/W	数値 0 ~ 255		
Review	Model	R	—		
	Distributor	R	—		
	Write protect	R	—		
	Manufacturer	R	—		
	Dev id	R	—		
	Tag	R	—		
	Descriptor	R	—		
	Message	R	—		
	Date	R	—		
	Universal rev	R	—		
	Fld dev rev	R	—		
	Software rev	R	—		
	Poll addr	R	—		
Num resp preams	R	—			

注： Built-in DTM を使用すると正しく文字が表示されません。℃はツ-C、°Fはツ-F と表示されます。
機器 DTM を使用するか、本体画面で確認してください。

■ 【SC450GのDD Onlineパラメーター一覧】（機器レビジョン2、DDレビジョン2）

注意

Built-in DTM を使用すると℃はツ-C、°Fはツ-F と表示されます。

Built-in DTM を使用すると正しく文字が表示されなかったり、正しく設定ができない場合があります。機器 DTM を使用するか、本体画面で設定（確認）してください。

表中 [] または [()] の表現があるものは、[] または [()] 内のパラメータ設定のときに有効な項目です。

SC450G	Parameter	R/W	Parameter Value	Unit	Note		
Process Values	PV	R	—	S/cm、S/m [Measure: Cond Only] ppb [Measure: Conc only] O.cm [Measure: Res only (Meas unit: /cm)] O.m [Measure: Res only (Meas unit: /m)]			
	SV	R	—	ツ-C	注		
	TV	R	—	S/cm、S/m [Measure: Cond Only] ppb [Measure: Conc only] O.cm [Measure: Res only (Meas unit: /cm)] O.m [Measure: Res only (Meas unit: /m)]			
Zoom	—	—	—				
Zoom sensor	Fact CC	R	—	/cm、/m			
	Adj CC	R	—	/cm、/m			
	Method SC1	R	—				
	Method SC2	R	—				
	Polarization	R	—				
	Ohms	R	—	ohm			
	USP%	R	—	%			
	Zoom output	mA1 value	R	—	mA		
		mA2 value	R	—	mA		
		S1 perc	R	—	%		
		S2 perc	R	—	%		
		S3 perc	R	—	%		
	Zoom device	S4 perc	R	—	%		
		Serial number	R	—			
Software Revision		R	—				
Device Revision	R	—					
Logbook	—	—	—				
Calibration	—	—	—				
Commissioning	Input contact	R/W	Disable Factor 10 mA1 Factor 10 mA2 Factor 10 mA1+2		Built-in DTM を使用すると Factor 10 mA1+2 が選択できません。		
	Measurement setup	Measure	R/W	Cond only Res Only Con conly Cond+Conc		Built-in DTM を使用すると Cond and Conc が選択できません。	
		Configure sensor	Sensor type	R/W	2-elec 4-elec		
			Meas unit	R/W	/cm /m		
		Fact CC	R/W	数値 0.005000 ~ 50.000000 [Meas unit: /cm] 0.500000 ~ 5000.000000 [Meas unit: /m]	/cm、/m		
	Temp setting	Temp sensor	R/W	Pt1000 Pt100 Ni100 8k55 Pb36 (JIS6k)			
		Temp unit	R/W	ツ-C ツ-F			

SC450G	Parameter	R/W	Parameter Value	Unit	Note
Temp compensation	Temp comp	R/W	Auto Manual		
	Man value	R/W	数值 -20.000000 ~ 250.000000 [temp unit: ™ -C] -4.000000 ~ 482.000000 [temp unit: ™ -F]	™ -C ™ -F	注
	Ref temp	R/W	数值 0.000000 ~ 100.000000 [temp unit: ™ -C] 32.000000 ~ 212.000000 [temp unit: ™ -F]	™ -C ™ -F	注
	Method SC1	R/W	None TC NaCl Matrix		
	Matrix SC1 [Method SC1: Matrix]	R/W	Ammonia 0-50ppb Morpholine 0-500 ppb Ammonia 15-30 % H2SO4 0-27% H2SO4 39-85% H2SO4 93-100% NaOH 0-15 % NaOH 25-50% HCl 0-200 ppb HCl 0-18% Hcl24-44% HNO3 0-25% HNO3 35-80% User defined 1 User defined 2		
	TC SC1 [Method SC1: TC]	R/W	数值 0.000000 ~ 3.5000000 [temp unit: ™ -C] 0.000000 ~ 2.000000 [temp unit: ™ -F]	%/ ™ -C %/ ™ -F	注
	Method SC2	R/W	None TC NaCl Matrix		
	Matrix SC2 [Method SC2: Matrix]	R/W	Ammonia 0-50 ppb Morpholine 0-500 ppb Ammonia 15-30 % H2SO4 0-27% H2SO4 39-85% H2SO4 93-100% NaOH 0-15 % NaOH 25-50% HCl 0-200 ppb HCl 0-18% HCl 24-44% HNO3 0-25% HNO3 35-80% User defined 1 User defined 2		
	TC SC2 [Method SC2: TC]	R/W	数值 0.000000 ~ 3.5000000 [temp unit: ™ -C] 0.000000 ~ 2.000000 [temp unit: ™ -F]	%/ ™ -C %/ ™ -F	注
	Calib. Setting	Air adjust limit	R/W	数值 0.000000 ~ 0.000020	S
CC hi lim		R/W	数值 100.000000 ~ 120.000000	%	
CC lo lim		R/W	数值 80.000000 ~ 100.000000	%	
Stab time		R/W	数值 2 ~ 30	s	
Cal interval		R/W	数值 1 ~ 250	d	
Concentration	Additional table [Measure: Conc only]	R/W	Disable Enable		
	Conc table unit [Measure: Conc only]	R/W	% ppt ppm ppb		

SC450G	Parameter	R/W	Parameter Value	Unit	Note
Output setup					
mA1 setup					
	Type	R/W	Off Control Output Simulate		
	Func [Type: Off]	R	Off		
	Func [Type: Control]	R/W	P PI PID		
	Param [Type: Control]	R/W	NONE CONDUCT [Measure: Cond only, Cond + Conc] RESIST1 [Measure: res only] CONCENT1 [Measure: Conc only] TEMPERATURE CONDUCT2 [Measure: Cond only] RESIST2 [Measure: res only] CONCENT2 [Measure: Conc only] CONCENT [Measure :Cond + Conc]		
	PID SP [Type: Control]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	PID Rng [Type: Control]	R/W	数値 0.000000 ~	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	PID Dir [Type: Control]	R/W	direct reverse		
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000	%	
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000	s	
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000	s	
	Burn [Type: Control]	R/W	Off Low High		
	Expire time [Type: Control]	R/W	数値 0.000000 ~ 1800.000000	s	
	Func [Type: Output]	R/W	Linear Table		
	Param [Type: Output]	R/W	NONE CONDUCT [Measure: Cond only, Cond + Conc] RESIST1 [Measure: res only] CONCENT1 [Measure: Conc only] TEMPERATURE CONDUCT2 [Measure: Cond only] RESIST2 [Measure: res only] CONCENT2 [Measure: Conc only] CONCENT [Measure :Cond + Conc]		
	Lin 0% [Type: Output (Func: Linear)]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注

SC450G	Parameter	R/W	Parameter Value	Unit	Note
	Lin 100% [Type: Output (Func: Linear)]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃-C、℃-F [Param: TEMPERATURE] % [Param: CONCENT2]	注
	Burn [Type: Output]	R/W	Off Low High		
	Damping time [Type: Output]	R/W	数値 0.000000 ~ 3600.000000	s	
	Func [Type: Simulate]	R	Simulate		
	Percentage [Type: Simulate]	R/W	数値 -10.000000 ~ 110.000000	%	
mA2 setup	Type	R/W	Off Control Output Simulate		
	Func [Type: Off]	R	Off		
	Func [Type: Control]	R/W	P PI PID		
	Param [Type: Control]	R/W	NONE CONDUCT [Measure: Cond only, Cond + Conc] RESIST1 [Measure: res only] CONCENT1 [Measure: Conc only] TEMPERATURE CONDUCT2 [Measure: Cond only] RESIST2 [Measure: res only] CONCENT2 [Measure: Conc only] CONCENT [Measure: Cond + Conc]		
	PID SP [Type: Control]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃-C、℃-F [Param: TEMPERATURE] % [Param: CONCENT2]	注
	PID Rng [Type: Control]	R/W	数値 0.000000 ~	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃-C、℃-F [Param: TEMPERATURE] % [Param: CONCENT2]	注
	PID Dir [Type: Control]	R/W	direct reverse		
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000	%	
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000	s	
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000	s	
	Burn [Type: Control]	R/W	Off Low High		
	Expire time [Type: Control]	R/W	数値 0.000000 ~ 1800.000000	s	
	Func [Type: Output]	R/W	Linear Table		

SC450G	Parameter	R/W	Parameter Value	Unit	Note
	Param [Type: Output]	R/W	NONE CONDUCT [Measure: Cond only, Cond + Conc] RESIST1 [Measure: res only] CONCENT1 [Measure: Conc only] TEMPERATURE CONDUCT2 [Measure: Cond only] RESIST2 [Measure: res only] CONCENT2 [Measure: Conc only] CONCENT [Measure :Cond + Conc]		
	Lin 0% [Type: Output (Func: Linear)]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃-C、℃-F [Param: TEMPERATURE] % [Param: CONCENT2]	注
	Lin 100% [Type: Output (Func: Linear)]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃-C、℃-F [Param: TEMPERATURE] % [Param: CONCENT2]	注
	Burn [Type: Output]	R/W	Off Low High		
	Damping time [Type: Output]	R/W	数値 0.000000 ~ 3600.000000	s	
	Func [Type: Simulate]	R	Simulate		
	Percentage [Type: Simulate]	R/W	数値 0.000000 ~ 100.000000	%	
S1 setup	Type	R/W	Off Control Alarm Fail Simulate HOLD USP		
	Func [Type: Off]	R	Off		
	Func [Type: Control]	R/W	P PI PID		
	Param [Type: Control]	R/W	NONE CONDUCT [Measure: Cond only, Cond + Conc] RESIST1 [Measure: res only] CONCENT1 [Measure: Conc only] TEMPERATURE CONDUCT2 [Measure: Cond only] RESIST2 [Measure: res only] CONCENT2 [Measure: Conc only] CONCENT [Measure :Cond + Conc]		
	PID SP [Type: Control]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃-C、℃-F [Param: TEMPERATURE] % [Param: CONCENT2]	注
	PID Rng [Type: Control]	R/W	数値 0.000000 ~	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃-C、℃-F [Param: TEMPERATURE] % [Param: CONCENT2]	注
	PID Dir [Type: Control]	R/W	direct reverse		
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000	%	

SC450G	Parameter	R/W	Parameter Value	Unit	Note
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000	s	
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000	s	
	Analog output [Type: Control]	R/W	PF DC		
	Max freq [Type: Control (Analog output: PF)]	R/W	数値 1.000000 ~ 120.000000	p/m	
	DC time [Type: Control (Analog output: DC)]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Control]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Alarm]	R	Alarm		
	Param [Type: Alarm]	R/W	NONE CONDUCT [Measure: Cond only, Cond + Conc] RESIST1 [Measure: res only] CONCENT1 [Measure: Conc only] TEMPERATURE CONDUCT2 [Measure: Cond only] RESIST2 [Measure: res only] CONCENT2 [Measure: Conc only] CONCENT [Measure: Cond + Conc]		
	Alarm Sp [Type: Alarm]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	Alarm dir. [Type: Alarm]	R/W	Low High		
	Alarm hyst. [Type: Alarm]	R/W	数値 0.000000 ~	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	Alarm delay [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Fail]	R/W	Hard + Soft Fail Hard Fail Only		Built-in DTM を使用すると Hard + Soft Fail が選択できません。
	Func [Type: Simulate]	R/W	ON/Off Percentage		
	Contact [Type: Simulate (Func: ON/OFF)]	R/W	ON OFF		
	Percentage [Type: Simulate (Func: percentage)]	R/W	数値 0.000000 ~ 100.000000	%	
	Func [Type: HOLD]	R	HOLD		
	Func [Type: USP]	R	USP		
	USP safety margin	R/W	数値 0.000000 ~ 100.000000	%	

SC450G		Parameter	R/W	Parameter Value	Unit	Note
	S2 setup	Type	R/W	Off Control Alarm Fail Simulate HOLD		
		Func [Type: Off]	R	Off		
		Func [Type: Control]	R/W	P PI PID		
		Param [Type: Control]	R/W	NONE CONDUCT [Measure: Cond only, Cond + Conc] RESIST1 [Measure: res only] CONCENT1 [Measure: Conc only] TEMPERATURE CONDUCT2 [Measure: Cond only] RESIST2 [Measure: res only] CONCENT2 [Measure: Conc only] CONCENT [Measure :Cond + Conc]		
		PID SP [Type: Control]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃-C、℃-F [Param: TEMPERATURE] % [Param: CONCENT2]	注
		PID Rng [Type: Control]	R/W	数値 0.000000 ~	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃-C、℃-F [Param: TEMPERATURE] % [Param: CONCENT2]	注
		PID Dir [Type: Control]	R/W	direct reverse		
		PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000	%	
		PID I time [Type: Contro (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000	s	
		PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000	s	
		Analog output [Type: Control]	R/W	PF DC		
		Max freq [Type: Control (Analog output: PF)]	R/W	数値 1.000000 ~ 120.000000	p/m	
		DC time [Type: Control (Analog output: DC)]	R/W	数値 1.000000 ~ 1800.000000	s	
		Expire time [Type: Control]	R/W	数値 1.000000 ~ 1800.000000	s	
		Func [Type: Alarm]	R	Alarm		
		Param [Type: Alarm]	R/W	NONE CONDUCT [Measure: Cond only, Cond + Conc] RESIST1 [Measure: res only] CONCENT1 [Measure: Conc only] TEMPERATURE CONDUCT2 [Measure: Cond only] RESIST2 [Measure: res only] CONCENT2 [Measure: Conc only] CONCENT [Measure :Cond + Conc]		
		Alarm Sp [Type: Alarm]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃-C、℃-F [Param: TEMPERATURE] % [Param: CONCENT2]	注

SC450G	Parameter	R/W	Parameter Value	Unit	Note
	Alarm dir. [Type: Alarm]	R/W	Low High		
	Alarm hyst. [Type: Alarm]	R/W	数値 0.000000 ~	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] O.cm、O.m [Param: RESIST1, 2] ℃-C、℉-F [Param: TEMPERATURE] % [Param: CONCENT2]	注
	Alarm delay [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Fail]	R/W	Hard + Soft Fail Hard Fail Only		Built-in DTM を使用すると Hard + Soft Fail が選択できません。
	Func [Type: Simulate]	R/W	ON/Off Percentage		
	Contact [Type: Simulate (Func: ON/OFF)]	R/W	ON OFF		
	Percentage [Type: Simulate (Func: percentage)]	R/W	数値 0.000000 ~ 100.000000	%	
	Func [Type: HOLD]	R	HOLD		
S3 setup	Type	R/W	Off Control Alarm Fail Simulate HOLD		
	Func [Type: Off]	R	Off		
	Func [Type: Control]	R/W	P PI PID		
	Param [Type: Control]	R/W	NONE CONDUCT [Measure: Cond only, Cond + Conc] RESIST1 [Measure: res only] CONCENT1 [Measure: Conc only] TEMPERATURE CONDUCT2 [Measure: Cond only] RESIST2 [Measure: res only] CONCENT2 [Measure: Conc only] CONCENT [Measure :Cond + Conc]		設定できますが、正しく読み出せません。本体画面で設定してください。
	PID SP [Type: Control]	R/W	数値 制限なし		
	PID Rng [Type: Control]	R/W	数値 0.000000 ~		
	PID Dir [Type: Control]	R/W	direct reverse		
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000	%	
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000	s	
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000	s	
	Analog output [Type: Control]	R/W	PF DC		
	Max freq [Type: Control (Analog output: PF)]	R/W	数値 1.000000 ~ 120.000000	p/m	
	DC time [Type: Control (Analog output: DC)]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Control]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Alarm]	R	Alarm		

SC450G	Parameter	R/W	Parameter Value	Unit	Note
	Param [Type: Alarm]	R/W	NONE CONDUCT [Measure: Cond only, Cond + Conc] RESIST1 [Measure: res only] CONCENT1 [Measure: Conc only] TEMPERATURE CONDUCT2 [Measure: Cond only] RESIST2 [Measure: res only] CONCENT2 [Measure: Conc only] CONCENT [Measure :Cond + Conc]		設定できますが、正しく読み出せません。本体画面で設定してください。
	Alarm Sp [Type: Alarm]	R/W	数値 制限なし		
	Alarm dir. [Type: Alarm]	R/W	Low High		
	Alarm hyst. [Type: Alarm]	R/W	数値 0.000000 ~		
	Alarm delay [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Fail]	R/W	Hard + Soft Fail Hard Fail Only		Built-in DTM を使用すると Hard + Soft Fail が選択できません。
	Func [Type: Simulate]	R/W	ON/Off Percentage		
	Contact [Type: Simulate (Func: ON/OFF)]	R/W	ON OFF		
	Percentage [Type: Simulate (Func: percentage)]	R/W	数値 0.000000 ~ 100.000000	%	
	Func [Type: HOLD]	R	HOLD		
S4 setup	Type	R/W	Off Control Alarm Fail Simulate HOLD		
	Func [Type: Off]	R	Off		
	Func [Type: Cntrol]	R/W	P PI PID		
	Param [Type: Control]	R/W	NONE CONDUCT [Measure: Cond only, Cond + Conc] RESIST1 [Measure: res only] CONCENT1 [Measure: Conc only] TEMPERATURE CONDUCT2 [Measure: Cond only] RESIST2 [Measure: res only] CONCENT2 [Measure: Conc only] CONCENT [Measure :Cond + Conc]		設定できますが、正しく読み出せません。本体画面で設定してください。
	PID SP [Type: Control]	R/W	数値 制限なし		
	PID Rng [Type: Control]	R/W	数値 0.000000 ~		
	PID Dir [Type: Control]	R/W	direct reverse		
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000		
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000		
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000		
	Analog output [Type: Control]	R/W	PF DC		
	Max freq [Type: Control (Analog output: PF)]	R/W	数値 1.000000 ~ 120.000000		
	DC time [Type: Control (Analog output: DC)]	R/W	数値 1.000000 ~ 1800.000000		

SC450G	Parameter	R/W	Parameter Value	Unit	Note
	Expire time [Type: Control]	R/W	数値 1.000000 ~ 1800.000000		
	Func [Type: Alarm]	R	Alarm		
	Param [Type: Alarm]	R/W	NONE CONDUCT [Measure: Cond only, Cond + Conc] RESIST1 [Measure: res only] CONCENT1 [Measure: Conc only] TEMPERATURE CONDUCT2 [Measure: Cond only] RESIST2 [Measure: res only] CONCENT2 [Measure: Conc only] CONCENT [Measure :Cond + Conc]		設定できますが、正しく読み出せません。本体画面で設定してください。
	Alarm Sp [Type: Alarm]	R/W	数値 制限なし		
	Alarm dir. [Type: Alarm]	R/W	Low High		
	Alarm hyst. [Type: Alarm]	R/W	数値 0.000000 ~		
	Alarm delay [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000		
	Expire time [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000		
	Func [Type: Fail]	R/W	Hard + Soft Fail Hard Fail Only		Built-in DTM を使用すると Hard + Soft Fail が選択できません。機器 DTM を使用するか、本体画面で設定してください。
	Func [Type: Simulate]	R/W	ON/Off Percentage		
	Contact [Type: Simulate (Func: ON/OFF)]	R/W	ON OFF		
	Percentage [Type: Simulate (Func: percentage)]	R/W	数値 0.000000 ~ 100.000000		
	Func [Type: HOLD]	R	HOLD		
	HOLD setup				
	HOLD L/F	R/W	Last Fixed		
	mA1 Fixed [HOLD L/F: Fixed]	R/W	数値 3.600000 ~ 21.000000	mA	
	mA2 Fixed [HOLD L/F: Fixed]	R/W	数値 3.600000 ~ 21.000000	mA	
	HOLD during cal	R/W	disabled enabled		
	Error config				
	Cond too high [Measure: Cond only, Conc only]	R/W	Off Warn Fail		
	Res too low [Measure: Res only]	R/W	Off Warn Fail		
	SC hi lim [Measure: Cond only, Conc only]	R/W	数値 0.000000 ~ 2.000000	S	
	Res low lim [Measure: Res only]	R/W	数値 0.000000 ~ 10000000.000000	ohm	
	Cond too low [Measure: Cond only, Conc only]	R/W	Off Warn Fail		
	Res too high [Measure: Res only]	R/W	Off Warn Fail		
	SC lo lim [Measure: Cond only, Conc only]	R/W	数値 0.000000 ~ 2.000000	S	
	Res hi lim [Measure: Res only]	R/W	数値 0.000000 ~ 10000000.000000	ohm	
	Temp too high	R/W	Off Warn Fail		
	Temp too low	R/W	Off Warn Fail		

SC450G	Parameter	R/W	Parameter Value	Unit	Note
	Pol detected	R/W	Off Warn Fail		
	Cal time exc	R/W	Off Warn Fail		
	USP limit exc	R/W	Off Warn Fail		
	1st comp mtrx	R/W	Warn Fail		
	2nd comp mtrx	R/W	Warn Fail		
	Conc table	R/W	Warn Fail		
	Logbook config				
	Sensor logbook	R/W	Error on Error off Temp Coeff. Air adjust limit Adj CC lo lim Adj CC hi lim Reference temp Stab. Time		
	mA logbook	R/W	mA setup Hold fixed value PID setpoint PID range Manual reset PID I time PID D time Burn Linear % Damping time Expire time		
	Contact logbook	R/W	Contact setup PID setpoint PID range Manual reset PID I time PID D time Control type DC period time Max pulse freq. Alarm setpoint Alarm direction Alarm hysteresis Alarm delay time Expire time		
	Erase logbook	R/W	Calibration Sensor Predictive Maint. All logbook		
	Warn logbook full	R/W	No Yes		
Basic setup	Tag	R/W	英数字		
	Distributor	R	—		
	Model	R	—		
	Device information				
	Descriptor	R/W	英数字		
	Message	R/W	英数字		
	Poll addr	R/W	数値 0 ~ 15		Built-in DTM を使用すると正しく設定できません。
	Num resp preams	R/W	数値 0 ~ 255		Built-in DTM を使用すると正しく設定できません。
Review	Model	R	—		
	Distributor	R	—		
	Write protect	R	—		
	Manufacturer	R	—		
	Dev id	R	—		
	Tag	R	—		
	Descriptor	R	—		
	Message	R	—		
	Date	R	—		
	Universal rev	R	—		
	Fld dev rev	R	—		
	Software rev	R	—		
	Poll addr	R	—		
	Num resp preams	R	—		

注： Built-in DTM を使用すると正しく文字が表示されません。℃はツ-C、°Fはツ-F と表示されます。
機器 DTM を使用するか、本体画面で確認してください。

■ 【ISC450GのDD Onlineパラメータ一覧】（機器レビジョン2、DDレビジョン2）

注意

Built-in DTM を使用すると℃はツ-C、°Fはツ-F と表示されます。

Built-in DTM を使用すると正しく文字が表示されなかったり、正しく設定ができない場合があります。機器 DTM を使用するか、本体画面で設定（確認）してください。

表中 [] または [()] の表現があるものは、[] または [()] 内のパラメータ設定のときに有効な項目です。

ISC450G	Parameter	R/W	Parameter Value	Unit	Note	
Process Values	PV	R	—	S/cm、S/m [Measure: Cond Only] ppb [Measure: Conc only]		
	SV	R	—	ツ-C ツ-F	注	
	TV	R	—	S/cm、S/m [Measure: Cond Only] ppb [Measure: Conc only]		
Zoom						
Zoom sensor	Fact CC	R	—	/cm、/m		
	Adj CC	R	—	/cm、/m		
	Method SC1	R	—			
	Method SC2	R	—			
	Ohms	R	—	ohm		
	Zoom output	Ohms	R	—	ohm	
		mA1 value	R	—	mA	
		mA2 value	R	—	mA	
		S1 perc	R	—	%	
		S2 perc	R	—	%	
		S3 perc	R	—	%	
	Zoom device	Serial number	R	—		
		Software Revision	R	—		
Device Revision		R	—			
Logbook	—	—	—			
Calibration	—	—	—			
Commissioning	Input contact	R/W	Disable Factor 10 mA1 Factor 10 mA2 Factor 10 mA1+2		Built-in DTM を使用すると Factor 10 mA1+2 が選択できません。	
	Measurement setup	Measure	R/W	Cond only Cond+Conc Con only		Built-in DTM を使用すると Cond and Conc が選択できません。
		Configure sensor	Meas unit	R/W	/cm /m	
	Fact CC		R/W	数値 0.200000 ~ 50.000000 [Meas unit: /cm] 20.000000 ~ 5000.000000 [Meas unit: /m]	/cm、/m	
	Temp setting	Temp sensor	R/W	Pt1000 NTC30k		
		Temp unit	R/W	ツ-C ツ-F		

ISC450G	Parameter	R/W	Parameter Value	Unit	Note
Temp compensation	Temp comp	R/W	Auto Manual		
	Man value	R/W	数值 -20.000000 ~ 140000000 [temp unit: ™ -C] -4.000000 ~ 284.000000 [temp unit: ™ -F]	™ -C ™ -F	注
	Ref temp	R/W	数值 0.000000 ~ 100.000000 [temp unit: ™ -C] 32.000000 ~ 212.000000 [temp unit: ™ -F]	™ -C ™ -F	注
	Method SC1	R/W	None TC NaCl Matrix		
	Matrix SC1 [Method SC1: Matrix]	R/W	Sulfuric acid 1..5% Sulfuric acid 0..27% Sulfuric acid 39..85% Sulfuric acid 93..100% HCl 1..5% HCl 0..18% HCl 24..44% HNO3 1..5% HNO3 0..25% HNO3 35-80% NaOH 1..5 % NaOH 0..15 % NaOH 25..50% User defined 1 User defined 2		
	TC SC1 [Method SC1: TC]	R/W	数值 0.000000 ~ 3.5000000 (Temp unit: ™ -C) 0.000000 ~ 2.000000 (Temp unit: ™ -F)	%/ ™ -C %/ ™ -F	注
	Method SC2 [Measure: Cond only, Conc only]	R/W	None TC NaCl Matrix		
	Matrix SC2 [Measure: Cond only, Conc only (Method SC2: Matrix)]	R/W	Sulfuric acid 1..5% Sulfuric acid 0..27% Sulfuric acid 39..85% Sulfuric acid 93..100% HCl 1..5% HCl 0..18% HCl 24..44% HNO3 1..5% HNO3 0..25% HNO3 35-80% NaOH 1..5 % NaOH 0..15 % NaOH 25..50% User defined 1 User defined 2		
	TC SC2 [Method SC2: TC]	R/W	数值 0.000000 ~ 3.5000000 [temp unit: ™ -C] 0.000000 ~ 2.000000 [temp unit: ™ -F]	%/ ™ -C %/ ™ -F	注
	Calib. Setting	Air adjust limit	R/W	数值 0.000000 ~ 0.000100	S
CC high lim		R/W	数值 100.000000 ~ 120.000000	%	
CC low lim		R/W	数值 80.000000 ~ 100.000000	%	
Stabilization time		R/W	数值 2 ~ 30	s	
Calb interval		R/W	数值 1 ~ 250	d	
Concentration	Additional table [Measure: Conc only]	R/W	Disable Enable		
	Conc table unit [Measure: Conc only]	R/W	% ppt ppm ppb		

ISC450G	Parameter	R/W	Parameter Value	Unit	Note
Output setup	—	—	—		
mA1 setup	Type	R/W	Off Control Output Simulate		
	Func [Type: Off]	R	Off		
	Func [Type: Control]	R/W	P PI PID		
	Param [Type: Control]	R/W	NONE CONDUCT [Measure: Cond Only, Cond + Conc] CONCENT1 [Measure: Conc Only] TEMPERATURE CONCENT [Measure: Cond + Conc] CONDUCT2 [Measure: Cond Only] CONCENT2 [Measure: Conc Only]		
	PID SP [Type: Control]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	PID Rng [Type: Control]	R/W	数値 0.000000 ~	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	PID Dir [Type: Control]	R/W	direct reverse		
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000	%	
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000	s	
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000	s	
	Burn [Type: Control]	R/W	Off Low High		
	Expire time [Type: Control]	R/W	数値 0.000000 ~ 1800.000000	s	
	Func [Type: Output]	R/W	Linear Table		
	Param [Type: Output]	R/W	NONE CONDUCT [Measure: Cond Only, Cond + Conc] CONCENT1 [Measure: Conc Only] TEMPERATURE CONCENT [Measure: Cond + Conc] CONDUCT2 [Measure: Cond Only] CONCENT2 [Measure: Conc Only]		
	Lin 0% [Type: Output (Func: Linear)]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	Lin 100% [Type: Output (Func: Linear)]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	Burn [Type: Output]	R/W	Off Low High		
	Damping time [Type: Output]	R/W	数値 0.000000 ~ 3600.000000	s	
	Func [Type: Simulate]	R	Simulate		
	Percentage [Type: Simulate]	R/W	数値 -10.000000 ~ 110.000000	%	

ISC450G	Parameter	R/W	Parameter Value	Unit	Note
mA2 setup	Type	R/W	Off Control Output Simulate		
	Func [Type: Off]	R	Off		
	Func [Type: Control]	R/W	P PI PID		
	Param [Type: Control]	R/W	NONE CONDUCT [Measure: Cond Only, Cond + Conc] CONCENT1 [Measure: Conc Only] TEMPERATURE CONCENT [Measure: Cond + Conc] CONDUCT2 [Measure: Cond Only] CONCENT2 [Measure: Conc Only]		
	PID SP [Type: Control]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	PID Rng [Type: Control]	R/W	数値 0.000000 ~	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	PID Dir [Type: Control]	R/W	direct reverse		
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000	%	
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000	s	
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000	s	
	Burn [Type: Control]	R/W	Off Low High		
	Expire time [Type: Control]	R/W	数値 0.000000 ~ 1800.000000	s	
	Func [Type: Output]	R/W	Linear Table		
	Param [Type: Output]	R/W	NONE CONDUCT [Measure: Cond Only, Cond + Conc] CONCENT1 [Measure: Conc Only] TEMPERATURE CONCENT [Measure: Cond + Conc] CONDUCT2 [Measure: Cond Only] CONCENT2 [Measure: Conc Only]		
	Lin 0% [Type: Output (Func: Linear)]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	Lin 100% [Type: Output (Func: Linear)]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	Burn [Type: Output]	R/W	Off Low High		
	Damping time [Type: Output]	R/W	数値 0.000000 ~ 3600.000000	s	
	Func [Type: Simulate]	R	Simulate		
	Percentage [Type: Simulate]	R/W	数値 0.000000 ~ 100.000000	%	

ISC450G		Parameter	R/W	Parameter Value	Unit	Note
S1 setup	Type	R/W	Off Control Alarm Fail Simulate HOLD			
	Func [Type: Off]	R	Off			
	Func [Type: Control]	R/W	P PI PID			
	Param [Type: Control]	R/W	NONE CONDUCT [Measure: Cond Only, Cond + Conc] CONCENT1 [Measure: Conc Only] TEMPERATURE CONCENT [Measure: Cond + Conc] CONDUCT2 [Measure: Cond Only] CONCENT2 [Measure: Conc Only]			
	PID SP [Type: Control]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注	
	PID Rng [Type: Control]	R/W	数値 0.000000 ~	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注	
	PID Dir [Type: Control]	R/W	direct reverse			
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000	%		
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000	s		
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000	s		
	Analog output [Type: Control]	R/W	PF DC			
	Max freq [Type: Control (Analog output: PF)]	R/W	数値 1.000000 ~ 120.000000	p/m		
	DC time [Type: Control (Analog output: DC)]	R/W	数値 1.000000 ~ 1800.000000	s		
	Expire time [Type: Control]	R/W	数値 1.000000 ~ 1800.000000	s		
	Func [Type: Alarm]	R	Alarm			
	Param [Type: Alarm]	R/W	NONE CONDUCT [Measure: Cond Only, Cond + Conc] CONCENT1 [Measure: Conc Only] TEMPERATURE CONCENT [Measure: Cond + Conc] CONDUCT2 [Measure: Cond Only] CONCENT2 [Measure: Conc Only]			
	Alarm Sp [Type: Alarm]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注	
	Alarm dir. [Type: Alarm]	R/W	Low High			
	Alarm hyst. [Type: Alarm]	R/W	数値 0.000000 ~	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注	
	Alarm delay [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s		

ISC450G	Parameter	R/W	Parameter Value	Unit	Note
	Expire time [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Fail]	R/W	Hard + Soft Fail Hard Fail Only		Built-in DTM を使用すると Hard + Soft Fail が選択できません。
	Func [Type: Simulate]	R/W	ON/Off Percentage		
	Contact [Type: Simulate (Func: ON/OFF)]	R/W	ON OFF		
	Percentage [Type: Simulate (Func: percentage)]	R/W	数値 0.000000 ~ 100.000000	%	
	Func [Type: HOLD]	R	HOLD contact		
S2 setup	Type	R/W	Off Control Alarm Fail Simulate HOLD		
	Func [Type: Off]	R	Off		
	Func [Type: Control]	R/W	P PI PID		
	Param [Type: Control]	R/W	NONE CONDUCT [Measure: Cond Only, Cond + Conc] CONCENT1 [Measure: Conc Only] TEMPERATURE CONCENT [Measure: Cond + Conc] CONDUCT2 [Measure: Cond Only] CONCENT2 [Measure: Conc Only]		
	PID SP [Type: Control]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	PID Rng [Type: Control]	R/W	数値 0.000000 ~	S/cm、S/m [Param: CONDUCT1, 2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	PID Dir [Type: Control]	R/W	direct reverse		
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000	%	
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000	s	
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000	s	
	Analog output [Type: Control]	R/W	PF DC		
	Max freq [Type: Control (Analog output: PF)]	R/W	数値 1.000000 ~ 120.000000	p/m	
	DC time [Type: Control (Analog output: DC)]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Control]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Alarm]	R	Alarm		
	Param [Type: Alarm]	R/W	NONE CONDUCT [Measure: Cond Only, Cond + Conc] CONCENT1 [Measure: Conc Only] TEMPERATURE CONCENT [Measure: Cond + Conc] CONDUCT2 [Measure: Cond Only] CONCENT2 [Measure: Conc Only]		

ISC450G	Parameter	R/W	Parameter Value	Unit	Note
	Alarm Sp [Type: Alarm]	R/W	数値 制限なし	S/cm、S/m [Param: CONDUCT1,2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	Alarm dir. [Type: Alarm]	R/W	Low High		
	Alarm hyst. [Type: Alarm]	R/W	数値 0.000000 ~	S/cm、S/m [Param: CONDUCT1,2] ppb [Param: CONCENT1] ℃、℉ [Param: TEMPERATURE] % [Param: CONCENT2]	注
	Alarm delay [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Fail]	R/W	Hard + Soft Fail Hard Fail Only		Built-in DTM を使用す ると Hard + Soft Fail が選択できません。
	Func [Type: Simulate]	R/W	ON/Off Percentage		
	Contact [Type: Simulate (Func: ON/OFF)]	R/W	ON OFF		
	Percentage [Type: Simulate (Func: percentage)]	R/W	数値 0.000000 ~ 100.000000	%	
	Func [Type: HOLD]	R	HOLD contact		
S3 setup	Type	R/W	Off Control Alarm Fail Simulate HOLD		
	Func [Type: Off]	R	Off		
	Func [Type: Control]	R/W	P PI PID		
	Param [Type: Control]	R/W	NONE CONDUCT [Measure: Cond Only, Cond + Conc] CONCENT1 [Measure: Conc Only] TEMPERATURE CONCENT [Measure: Cond + Conc] CONDUCT2 [Measure: Cond Only] CONCENT2 [Measure: Conc Only]		設定できますが、正 しく読み出せません。 本体画面で設定して ください。
	PID SP [Type: Control]	R/W	数値 制限なし		
	PID Rng [Type: Control]	R/W	数値 0.000000 ~		
	PID Dir [Type: Control]	R/W	direct reverse		
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000	%	
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000	s	
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000	s	
	Analog output [Type: Control]	R/W	PF DC		
	Max freq [Type: Control (Analog output: PF)]	R/W	数値 1.000000 ~ 120.000000	p/m	
	DC time [Type: Control (Analog output: DC)]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Control]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Alarm]	R	Alarm		

ISC450G	Parameter	R/W	Parameter Value	Unit	Note
	Param [Type: Alarm]	R/W	NONE CONDUCT [Measure: Cond Only, Cond + Conc] CONCENT1 [Measure: Conc Only] TEMPERATURE CONCENT [Measure: Cond + Conc] CONDUCT2 [Measure: Cond Only] CONCENT2 [Measure: Conc Only]		設定できますが、正しく読み出せません。本体画面で設定してください。
	Alarm Sp [Type: Alarm]	R/W	数値 制限なし		
	Alarm dir. [Type: Alarm]	R/W	Low High		
	Alarm hyst. [Type: Alarm]	R/W	数値 0.000000 ~		
	Alarm delay [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Expire time [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000	s	
	Func [Type: Fail]	R/W	Hard + Soft Fail Hard Fail Only		Built-in DTM を使用すると Hard + Soft Fail が選択できません。
	Func [Type: Simulate]	R/W	ON/Off Percentage		
	Contact [Type: Simulate (Func: ON/OFF)]	R/W	ON OFF		
	Percentage [Type: Simulate (Func: percentage)]	R/W	数値 0.000000 ~ 100.000000	%	
	Func [Type: HOLD]	R	HOLD contact		
S4 setup	Type	R/W	Off Control Alarm Fail Simulate HOLD		
	Func [Type: Off]	R	Off		
	Func [Type: Cntrol]	R/W	P PI PID		
	Param [Type: Control]	R/W	NONE CONDUCT [Measure: Cond Only, Cond + Conc] CONCENT1 [Measure: Conc Only] TEMPERATURE CONCENT [Measure: Cond + Conc] CONDUCT2 [Measure: Cond Only] CONCENT2 [Measure: Conc Only]		設定できますが、正しく読み出せません。本体画面で設定してください。
	PID SP [Type: Control]	R/W	数値 制限なし		
	PID Rng [Type: Control]	R/W	数値 0.000000 ~		
	PID Dir [Type: Control]	R/W	direct reverse		
	PID MR [Type: Control (Func: P)]	R/W	数値 0.000000 ~ 100.000000		
	PID I time [Type: Control (Func: PI, PID)]	R/W	数値 1.000000 ~ 3600.000000		
	PID D time [Type: Control (Func: PID)]	R/W	数値 0.000000 ~ 60.000000		
	Analog output [Type: Control]	R/W	PF DC		
	Max freq [Type: Control (Analog output: PF)]	R/W	数値 1.000000 ~ 120.000000		
	DC time [Type: Control (Analog output: DC)]	R/W	数値 1.000000 ~ 1800.000000		
	Expire time [Type: Control]	R/W	数値 1.000000 ~ 1800.000000		
	Func [Type: Alram]	R	Alarm		

ISC450G		Parameter	R/W	Parameter Value	Unit	Note
		Param [Type: Alarm]	R/W	NONE CONDUCT [Measure: Cond Only, Cond + Conc] CONCENT1 [Measure: Conc Only] TEMPERATURE CONCENT [Measure: Cond + Conc] CONDUCT2 [Measure: Cond Only] CONCENT2 [Measure: Conc Only]		設定できますが、正しく読み出せません。本体画面で設定してください。
		Alarm Sp [Type: Alarm]	R/W	数値 制限なし		
		Alarm dir. [Type: Alarm]	R/W	Low High		
		Alarm hyst. [Type: Alarm]	R/W	数値 0.000000 ~		
		Alarm delay [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000		
		Expire time [Type: Alarm]	R/W	数値 1.000000 ~ 1800.000000		
		Func [Type: Fail]	R/W	Hard + Soft Fail Hard Fail Only		Built-in DTM を使用すると Hard + Soft Fail が選択できません。
		Func [Type: Simulate]	R/W	ON/Off Percentage		
		Contact [Type: Simulate (Func: ON/OFF)]	R/W	ON OFF		
		Percentage [Type: Simulate (Func: percentage)]	R/W	数値 0.000000 ~ 100.000000	%	
		Func [Type: HOLD]	R	HOLD contact		
	HOLD setup	HOLD L/F	R/W	Last Fixed		
		mA1 Fixed [HOLD L/F: Fixed]	R/W	数値 3.600000 ~ 21.000000	mA	
		mA2 Fixed [HOLD L/F: Fixed]	R/W	数値 3.600000 ~ 21.000000	mA	
		HOLD during cal	R/W	disabled enabled		
	Error config	Cond too high	R/W	Off Warn Fail		
		SC hi lim	R/W	数値 0.100000 ~ 3.000000	S	
		Cond too low	R/W	Off Warn Fail		
		SC Lo lim	R/W	数値 0.000000 ~ 0.000100	S	
		Temp too high	R/W	Off Warn Fail		
		Temp too low	R/W	Off Warn Fail		
		Cal time exc	R/W	Off Warn Fail		
		1st comp mtrx	R/W	Warn Fail		
		2nd comp mtrx	R/W	Warn Fail		
		Conc table	R/W	Warn Fail		

ISC450G		Parameter	R/W	Parameter Value	Unit	Note
Logbook config	Sensor logbook	R/W	Error on Error off Temp Coeff. Air adjust limit Adj CC lo lim Adj CC hi lim Reference temp Stab. Time	チェックボックスで複数 選択可能		
	mA logbook	R/W	mA setup Hold fixed value PID setpoint PID range Manual reset PID I time PID D time Burn Linear % Damping time Expire time	チェックボックスで複数 選択可能		
	Contact logbook	R/W	Contact setup PID setpoint PID range Manual reset PID I time PID D time Control type DC period time Max pulse freq. Alarm setpoint Alarm direction Alarm hysteresis Alarm delay time Expire time	チェックボックスで複数 選択可能		
	Erase logbook	R/W	Calibration Sensor All logbook	選択後、実行するか最終 確認される	選択後、実行するか 最終確認されます。	
	Warn logbook full	R/W	No Yes			
Basic setup	Tag	R/W	英数字			
	Distributor	R	—			
Device information	Model	R	—			
	Descriptor	R/W	英数字			
	Message	R/W	英数字			
	Poll addr	R/W	数値 0 ~ 15		Built-in DTM を使用す ると正しく設定でき ません。	
Review	Num resp preams	R/W	数値 0 ~ 255		Built-in DTM を使用す ると正しく設定でき ません。	
	Model	R	—			
	Distributor	R	—			
	Write protect	R	—			
	Manufacturer	R	—			
	Dev id	R	—			
	Tag	R	—			
	Descriptor	R	—			
	Message	R	—			
	Date	R	—			
	Universal rev	R	—			
	Fld dev rev	R	—			
	Software rev	R	—			
Poll addr	R	—				
Num resp preams	R	—				

注： Built-in DTM を使用すると正しく文字が表示されません。℃はツ-C、°Fはツ-F と表示されます。
機器 DTM を使用するか、本体画面で確認してください。

改版履歴

資料名称 : PH450G/SC450G/ISC450G 4線式液分析計 HART 通信

資料番号 : TI 12A01A01-60JA

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誤記訂正 (P.3 FieldMate の DD ファイルのインストール)

2017年6月/初版

新規作成

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