



SMART 920

920 MHz band wireless communication instrument series

Lower wiring costs and increase flexibility with 920 MHz wireless communication



Reliable Wireless Data Transfer

Secure 920 MHz wireless network

SMART 920 creates a wireless Modbus RTU connection between SMARTDAC+ systems and UT52A/UT32A controllers. SMART 920 supports installation in areas where traditional cable connections are impossible.

GX20 and GM10 master units and GM10 and UT52A/UT32A slave units. This supports distributed.

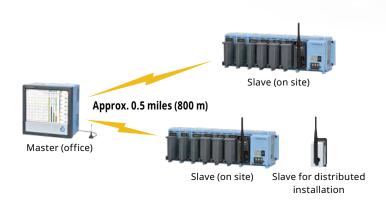
SMART 920 Series Lineup



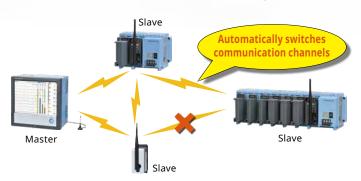
GX20

Easily acquire and record data wirelessly from slave devices.

Securely Share

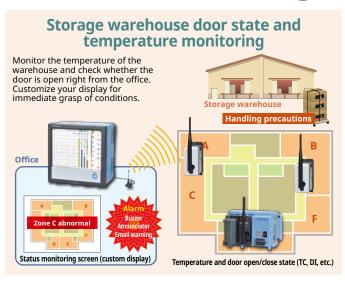


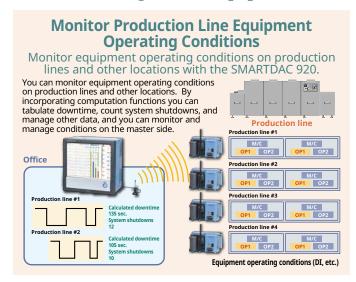
Stable wireless communication function



Automatic channel switching with multi-hop technology

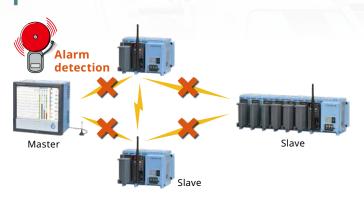
Wireless Monitoring for a Variety of Applications







Important Data



Alarm detects and alerts when communication is lost



UT32A is recommended.

gateway function.

Approximate max. connected units and update intervals

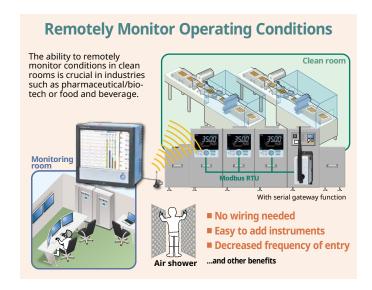
Connected	Update interval			
GM units	1 S	2 S	5 S	
1	370 ch	500 ch	500 ch	
2	250 ch	500 ch	500 ch	
4	160 ch	500 ch	500 ch	
8		320 ch	500 ch	
12			500 ch	
16			500 ch	

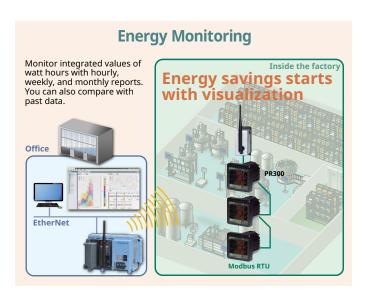
	Modbus communication interval			
UT units	500 ms	15	2 S	5 S
1	27 ch	100 ch	100 ch	100 ch
2	_	27 ch	100 ch	100 ch
4	_	_	27 ch	100 ch
8		_	_	58 ch

Supports a broad range of applications from small to multi-point

Slave

*1. Comes with PID control or ladder program computation functions and a serial





Lineup that supports a variety of applciations

GX20 Model and Suffix code

	Model Suffix Optional Description			
Model Code		code	Description	
GX20			Paperless recorder (Panel mount type, Large display) *1	
	-1			Standard (Max. measurement channels: 100 ch)
Type	-2			Large memory (Max. measurement channels: 500 ch)
Display language E			English, degF, DST (summer/winter time) *2	
		/AH	Aerospace heat treatment	
		/AS	Advanced security function (Part 11)	
		/BC	Black cover	
		/BT	Multi-batch function	
		/C2	RS-232*3	
		/C3	RS-422/485 *3	
		/CG	Custom display *4	
		/D5	VGA output	
		/E1	EtherNet/IP communication (PLC communication protocol)	
Optiona	Optional features		/E2	WT communication *5
			/E3	OPC-UA server
			/E4	SLMP communication (Mitsubishi PLC)
		/FL	Fail output, 1 point	
		/LG	Log scale	
		/MT	Mathematical function (with report function) *6 *7	
		/MC	Communication channel function *8	
		/P1	24 V DC/AC power supply	
		/PG	Program control function	
		/UH	USB interface (Host 2 ports)	
		/CM2	920 MHz wireless communication (master function) *3 *8	

- *1 To connect an expandable I/O, GM sub unit, you will need one expansion module for the GX.

- *1 To connect an expandable I/O, GM sub unit, you will need one expansion module for the GX.
 *2 The Display language is selectable.
 To confirm the current available languages, please visit the following website.
 URL: http://www.yokogawa.com/ns/language/
 *3 I/C2, I/C3 and I/CM2 cannot be specified together.
 *4 Creating custom displays requires DXA170 DAQStudio (sold separately). (GX does not have a creation function.)

 *5 I/MC existing must be constably specified when the WT communication is selected.
- 5 /MC option must be separately specified when the WT communication is selected.
- *6 Optional code /MT (MATH) required if using the GX90XD's or GX90WD's pulse input.
 *7 The /MT option (computation) is required to perform pulse integration on GX90XP pulse input
- *8 If you want to load data from other devices into the GX using Modbus client, a communication

UT52A Model and Suffix code

UT52A-00B-11-00/MDL Optional sufx codes: /DC, /CT * For details on the UT52A, see the UT52A (DIN rail type) general specifications (GS05P01C81-01EN).

UT32A Model and Suffix code

UT32A-00B-11-00/MDL

Optional sufx codes: /DC, /CT, /CV

* For details on the UT32A, see the UT32A (DIN rail type) general specifications (GS05P01C81-01EN).

Ordering requirements

- * Specify either the GX20 or GM10 as the master
- * Specify the GM10, UT52A, or UT32A as the slave or repeater device
- * Specify a sleeve or rooftop antenna for the wireless antenna

GM10 Model and Suffix code

Model	Suffix code		Optional code	Description		
GM10				Data Acquisition Module for SMARTDAC+ GM		
1		Standard (Max. measurement channels: 100)				
Type	-2				Large memory (Max. measurement channels: 500)	
Area		Ε			General	
_			0		Always zero	
		/AH	Aerospace heat treatment			
				/AS	Advanced security function	
		/BT	Multi-batch function			
		/C3	RS-422/485 *1			
		/C8	Bluetooth			
		/E1	1 EtherNet/IP communication (PLC communication protocol)			
	Optional features		/E2	WT communication *2		
Optiona			25	/E3	OPC-UA sever	
			/E4	SLMP communication (Mitsubishi PLC)		
		/MT	Mathematical function (with report function) *3*4			
		/MC	Communication channel function *5			
		/LG	Log scale			
				/PG	Program control function	
				/CM2	920 MHz wireless communication (master function) *1	
		/CS2	920 MHz wireless communication (slave function) *1 *5			

- *1 /C3, /CM2 and /CS2 cannot be specified together.
 *2 Communication channel function (/MC option) must be specified at the same time with WT communication.
- *3 Optional code /MT (MATH) required if using the GX90XD's or GX90WD's pulse input.

 *4 Optional code /MT (MATH) required if using the GX90XP's pulse integration.

 *5 If you want to load data from other devices into the GM using Modbus client, a communication channel (/MC) is required.

GM90PS Model and Suffix code

For 100-240 VAC power (inlet), GM90PS-1N1□0/W For 100-240 VAC power (M4 screw), GM90PS-1N1W0/W For 12-28 VDC power (M4 screw), GM90PS-1N2W0/W

For the GX90□□I/O modules, GX60 expansion unit, GX90EX expansion modules, GM90MB moule base, add-ons and accessories, see the GX/GP or GX/GP catalogs No.: Bulletin 04L51B01-01EN GM catalogs No.: Bulletin 04L55B01-01EN

Accessories





Wall mount bracket for UT52A/UT32A Model: UTAP005

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