

# General Specifications

## Model SRVD Strip Chart Recorder

YEW SERIES 80

*The SRVD 1- and 2-pen recorders use disposable felt-tip pens for smooth writing. Input signal (high/low) limiting protects the pen servo. Pen servo time constant is adjustable.*

### STANDARD SPECIFICATIONS.

#### Input Signal

Analog Input: 1 to 5 V DC.

Input Resistance: 1 M $\Omega$ .

#### Indicator/Recorder

Scale: 100-mm long vertical scale, single set of graduations with numbers.

Accuracy:  $\pm 0.5\%$  of span.

Recording Pens: Disposable felt-tip pens.

Pen Life: Approx. 2 months or 600 m long recording.

Number of Pens: 1 or 2.

Pen Step Response Time: Adjustable 1 to 3.5 seconds.

#### Ink Color:

Red for 1-pen recorder, and for pen 1 of 2-pen recorder.

Green for pen 2 of 2-pen recorder.

Chart Speed: Switch selectable – 20 mm/min., 20 mm/hr. and OFF. The chart speed select switch is on instrument side panel.

Chart: Z-fold type, recording width 100 mm. Length approximately 8 m – chart lasts more than 16 days at 20 mm/hr.

Chart Feed: Chart feed pushbutton on side panel.

#### Alarm Options

Alarms: Applicable model codes SRVD-□10, -□20.

Pen 1: High/low limit alarms.

Pen 2: High/low limit alarms.

High Alarm Setting: 0 to 100%.

Low Alarm Setting: 0 to 100%.

Alarm Hysteresis: Less than 2% of span.

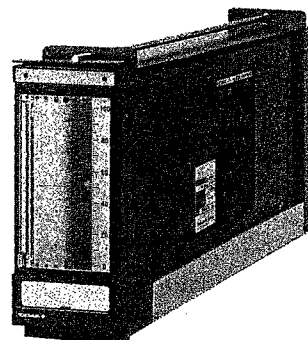
Alarm Contact Outputs: High/low limit alarm contact outputs, one point each, for both pens 1 and 2. Contact rating: 30 V DC, 200 mA (resistive load). Contact Status: During alarm, open/closed (switch selectable); during power failure, open.

Alarm Indicator: ALM lamp on the front panel lights to provide visual alarm.

#### Normal Operating Conditions

Ambient Temperature: 0 to 50°C.

Ambient Humidity: 5 to 85% relative humidity (non-condensing).



Power Supply: Two versions, for “110 V” (standard) or “220 V” (option /A2ER). Both versions may use AC or DC, without change to the instrument:

Version	100 V	220 V
DC (polarity reversible)	20 to 130 V	120 to 340 V
AC (47 to 63 Hz)	80 to 138 V	138 to 264 V

#### Maximum Power Consumption:

Model & Suffix Codes	24 V DC (mA)	100 V AC (VA)	220 V AC (VA)
SRVD-1	270	13.7	17.0
SRVD-2	470	20.3	25.3
Without alarms	0	—	—
Pen 1 alarm	1	+50	+1.7
Pen 1, 2 alarms	2	+100	+3.3

#### Insulation Resistance:

Between I/O Terminals and Ground: 100 M $\Omega$ /500 V DC.

Between Power and Ground: 100 M $\Omega$ /500 V DC.

#### Dielectric Strength:

Between I/O Terminals and Ground: 500 V AC for 1 minute.

Between Power and Ground:

1000 V AC for 1 minute (100 V version).

1500 V AC for 1 minute (220 V version).

#### Wiring:

Signal Wiring to/from the Field: ISO M4 size (4 mm) screws on terminal block.

#### Power and Ground Wiring:

100 V version: JIS C 8303 two-pin plug with earthing contact, (IEC A5-15, UL498)

220 V version: CEE 7 VII (CENELEC standard) plug.

Cable Length: 300 mm.

**Mounting:** Flush panel mounting. Instruments are in housings, and may be mounted individually or side-by-side. Instrument may be inclined with front up to 75° from vertical (rear of instrument lower than front). (Indicator zero may need readjustment).

**Nameplate:**

Size: 8 X 65.3 mm, cream semi-gloss finish.

Lettering: In black, one or two rows each up to 14 alphanumeric characters long.

**Front Panel Finish:** Dark Green (Munsell 2.5GY 3/1).

**Bezel:** Aluminium diecast, black baked-enamel finish.

**Housing:** Open front.

**Housing Dimensions:** 182.5 (H) X 87 (W) X 480 ((D): depth behind panel surface) (mm).

**Weight:**

Recorder: 3.2 kg for 1-pen model, 3.4 kg for 2-pen model (excluding housing).

Housing: 2 kg (excluding mounting kit).

## MODEL AND SUFFIX CODES.

Model	Suffix Code	Description
SRVD	.....	Recorder
Number of Inputs	-1 .....	1-pen model
	-2 .....	2-pen model
Alarms	0 .....	Without alarm
	1 .....	High/low limit alarms for 1-pen model
	2 .....	High/low limit alarms for 2-pen model
	0 .....	Always 0
Style Code	*B .....	Style B
Option I	/SCC .....	With auxiliary scale
Options	/A2ER .....	220 V power supply *
	/MTS .....	With mounting kit
	/SCCF-G□M .....	Bezel color change
	/NHS .....	Without housing
	/NPE .....	Nameplate engraving

\* When ordering housing separately, specify /A2/NHS.

## OPTIONS.

/A2ER: For "220 V version" power supply.

/SSC: Single auxiliary scale. Major divisions are marked. See GS 22D1C1-E for styles available.

/MTS: Recorder supplied with kit for individual mounting. For mounting in groups, see GS 1B4F1-E.

/SCF-G□M: Mounting kit bezel color change from standard color (black). Choose color from set of optional colors (see GS 22D1F1-E). Specify color code in space □.







/NHS: No housing, instrument only. See GS 1B4F1-E to order housing separately.

/NPE: Letters engraved on front panel nameplate.

## ACCESSORIES.

Accessories	Qty		Remarks
	1-pen	2-pen	
Chart paper	6	6	
Felt-tip pen (RED)	3	3	Part No. E9718JY
Felt-tip pen (GRN)	—	3	Part No. E9718JZ
Fuse	1	1	1 A

## TERMINAL CONNECTIONS.

Terminal Designation	Description	Terminal Designation	Description
1	+  Input 1 (1 to 5 V DC)	17	+  Input 2, low limit alarm*3
2		18	
3	+  Input 2*1 (1 to 5 V DC)	19	
4		20	
5		21	
6		A	+  Input 1, high limit alarm*2
7		B	
8		C	+  Input 1, low limit alarm*2
9		D	
10		F	
11		H	
12		J	
13		K	
14		L	
15	+  Input 2, high limit alarm*3	M	
16		N	

### Notes:

- \*1: Pen 2 of 2-pen model
- \*2: Pen 1 alarm output
- \*3: Pen 2 alarm output

## ORDERING INSTRUCTIONS

Specify the following when ordering:

- Model, suffix and option codes.
- Main scale and engineering units marking (see GS 22D1C1-E). Auxiliary scale also, for option code /SSC.
- Type of chart paper (see list in GS 22D1B1-E).
- Nameplate marking, if required (option /NPE).
- Mounting kit (option /MTS) if the recorder is to be mounted individually.