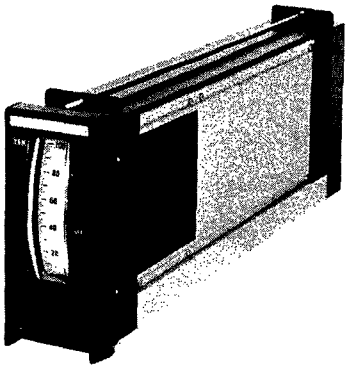
General Specifications

Model SMLD
Manual Station

YEWSERIES 80

The SMLD Manual Station can be used to provide a remote set point for a controller or a manual manipulated value output (e.g. to a valve actuator). The set point is adjusted using a wheel on the front panel. An indicator with a 100-mm long scale displays the set point accurately. A measured value input may also be displayed on the meter.



STANDARD SPECIFICATIONS.

Input/Output Signals

Analog Input/Output Signals:

Analog Input	1 to 5 V DC	Input resistance 1 MΩ
Analog Output	1 to 5 V DC	Load at least 2 kΩ
Manipulated Outputs	4 to 20 mADC	Load up to 750 Ω
	1 to 5 V DC	Load at least 2 kΩ

Output Setting Accuracy:
±1% of span (4 to 20 mA DC).
±0.5% of span (1 to 5 V DC).

Indicators

Process Variable & Set Point Indicators: Moving coil type dual pointer meter.
Pointer Color: Process variable – red; Set point – blue.
Moving Coil Indicator Accuracy: ±0.5% of span.
Common Specifications:
Indication Range: 0 to 100%.
Scale: 100 mm long, interchangeable.
Scale Marking: Single scale with units marking. Major divisions are marked.
Set Point Adjustment: Set point wheel on front panel.

Normal Operating Conditions

Ambient Temperature: 0 to 50°C.
Ambient Humidity: 5 to 90% relative humidity (non-condensing).
Power Supply: Two versions, for "100 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: 100 mA with 24 V DC supply, 7.3 VA with 100 V AC supply, 10.2 VA with 220 V AC supply.
Insulation Resistance:
Between I/O Terminals and Ground: 100 MΩ at 500 V DC.
Between Power and Ground: 100 MΩ at 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. Rear of instrument may be up to 75° below 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.

Bezel: Aluminum 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:
Instrument Body: 3 kg (excluding housing).
Housing: 2 kg (excluding mounting kit).

OPTIONS.

/A2ER: For "220 V version" power supply.
/MTS: Instrument 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, plug-in instrument module only. See GS 1B4F1-E to order housing separately.

/NPE: Letters engraved on front panel nameplate.

ACCESSORIES.

1 A fuse, quantity one.

MODEL AND SUFFIX CODES.

Model	Suffix Codes		Description
SMLD	. . . . .		Manual Station
	-1		Process variable indicator
	00		Always 00
Style Code	*A		Style A
Options		/A2ER	220 V power supply *1
		/MTS	With mounting kit
		/SCF-G□M	Bezel color change
		/NHS	Without housing
		/NPE	Nameplate engraving

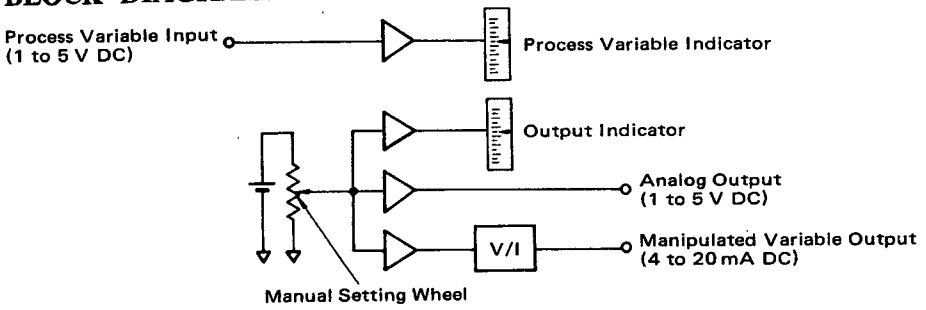
*1 When ordering housing separately, specify /A2/NHS.

TERMINAL CONNECTIONS.

Terminal Designation	Description	Terminal Designation	Description
1	+	17	
2	− Input 1 to 5 V DC	18	
3		19	
4		20	
5		21	
6		A	+
7		B	− Manipulated output 4 to 20 mA*2
8		C	+
9		D	− Manipulated output 1 to 5 V DC
10		F	
11		H	
12		J	
13		K	
14		L	
15		M	
16		N	

*2 If these terminals are not used, connect them together.

FUNCTIONAL BLOCK DIAGRAM.



========= ORDERING INSTRUCTIONS =========

Specify the following when ordering:

1. Model, suffix and option codes.
2. Main scale and engineering units marking (see GS 22D1C1-E).
3. Nameplate marking, if required (option /NPE).
4. Mounting kit (option /MTS), if the instrument is to be mounted individually.

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