

PROCESS & CURRENT LOOP 4½ DIGIT LCD DPM
Wide Zero and Span Adjustments
Powerless DPM® Loop Powered!

MODEL
6171

CURRENT LOOP

Features:

- Loop Powered
- Under/Over-range Indications
- Low Compliance Voltage
- 4-20 & 10-50mA Loops
- 3 Housing Options
- Backlight Option



SNAP RING



EXPLOSION PROOF



CONDUIT

DESCRIPTION: The 6171 is a 4½ digit full 19,999 count Powerless DPM®, that uses the current loop to power itself, eliminating the need for external or internal power supplies. The compliance voltage required by the 6171 allows the user to use low loop voltages, eliminating the need for certification in certain applications. The big display and small package of the 6171 saves you expensive panel space and is viewable at distances up to 20 feet (6m).

CALIBRATION: All units calibrated for standard process range (4mA=0; 20mA=10,000 counts or equivalent) unless otherwise requested at the time of ordering. In either case, 6171 series can be field calibrated by adjusting the "pots" as required.

CONNECTIONS: Simple and secure with our screw terminal connector.

BACKLIGHT: The backlight is powered by the loop (4-20mA range only) and its intensity is proportional to the loop's current (lowest @ 4, highest @ 20mA) unless externally powered (see Ordering Information). Backlight is positive image (black segments over an illuminated background).

HOUSING: Available in "Snap Ring" case (U.L. approved ABS Polycarbonate 94VO rated), "Conduit" for those harsh environments or "Explosion Proof" case that meets Class I, Div. 1 & 2 Groups B, C, D; Class II, Div. 1 & 2 Groups E, F, G; Class III, NEMA 3, 4, 7, 9 & 12; FM, CSA, Cenelec and Baseefa!

DECIMAL POINTS: Simple! Just jumper or switch the terminal posts (see terminal description).

SPECIFICATIONS AT 25°C

Accuracy and Linearity	±0.005% ±1 Digit
Current Loop Range	3mA to 40mADC
Compliance Range	4-30VDC (clamped to 5.2VDC)
Temperature Drift	±0.005% of F.S./°C
Common Mode R.R.	110dB
Operating Temp.	-10° to +60°C
Storage Temp.	-20° to +70°C
Humidity	to 95% (non-condensing) at 33°C
Display	0.50" Reflective LCD
Power Requirement	Loop Powered
Decimal Points	Externally Selectable
MTBF	80,000 Hours

TERMINAL

DESCRIPTION

1	1X.XXX Decimal Point. Connect to terminal 3 to illuminate.
2	1XX.XX Decimal Point. Connect to terminal 3 to illuminate.
3	+ Loop Input
4	Display Hold. Connect to terminal 3 to enable.
5	- Loop Input (- lamp)
6	1XXX.X Decimal Point. Connect to terminal 3 to illuminate.
7	1.XXXX Decimal Point. Connect to terminal 3 to illuminate.
8	+ lamp

NOTE: Connect undesired D.P. to terminal 5 (- Loop) through a 1MΩ 5% resistor.

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ORDERING INFORMATION (1/1/97)

MODEL 6 1 7 1 1 1 2	
INPUT RANGE	BACKLIGHT POWER INPUT (2)
0 4-20mA	0 None
1 10-50mA	1 Loop Powered
BACKLIGHT (1)	2 5VDC Power
0 No Backlight	3 120/240VAC (Open Frame)
1 Red Backlight	4 120VAC (Power Pack)
2 Green Backlight	
HOUSING	
0 Snap Ring	(1) Backlight is positive image (black segments over an illuminated background).
2 Conduit	(2) See mechanical info. on back page.
3 Explosion Proof	

