


Series Process Meter / Controller
INFP

Six full digits and broad scaling capabilities make the INFP meter ideal for demanding process control applications. Suited for even the most hostile environments with a gasketed front bezel, this meter offers on-board excitation to let you power virtually any sensor or transmitter.

**SPECIFICATIONS**

- ✓ **6 Digit Display**
- ✓ **Split Meter with Remote Display**
- ✓ **Four Isolated Open Collector Outputs**
- ✓ **Wide Selection of dc Voltage and Current Ranges**
- ✓ **High Accuracy of $\pm 0.005\%$ of Reading**
- ✓ **Large Digital Offset Capabilities Enabling Easy Scaling in Engineering Units**
- ✓ **Smart Filtering Detects the Difference Between a Spike or Process Change (Patent Applied For)**
- ✓ **Selectable Decimal Point and Read Rates of up to 13 Readings/Sec**
- ✓ **Peak and Valley Detection and Memory**
- ✓ **Configurable Via Front Pushbuttons or Via RS-232 or RS-485**

OPTIONS

- ✓ **Isolated Dual 7 Amp Form C Relays**
- ✓ **Isolated Parallel BCD Output**
- ✓ **Isolated Analog Output of 0-10 Vdc, 0-5 Vdc, 1-5 Vdc, 0-20 mA dc and 4-20 mA dc**
- ✓ **Isolated Serial RS-232**
- ✓ **Isolated RS-485, Addressable up to 199 Units**

NEWPORT PRODUCT INFO	
•	MANUAL 
•	QUICK START 
•	OPTIONS & ADDENDUMS 
•	SOFTWARE
•	MECHANICAL
•	PRICE
 REQUIRES ADOBE ACROBAT - HELP	



Four standard setpoints give you the flexibility to control or alarm your system completely. The meter lets you scale and offset the input signal into any engineering units desired, plus select a two-point data method of scale and offset that eliminates the signal errors transmitted from a sensor.

You can capture and display both peak and valley levels of your input signals, an important feature for such applications as destructive and pressure testing. Five different kinds of excitation are available for sensors such as transmitters (24 Vdc @ 25 mA), strain gages (1.5 to 10 Vdc @ up to 60 mA max.), slide-wire potentiometers (1.25 Vdc @ 30 mA).

The meter is delivered configured for the input type you choose. The meter can be easily reconfigured using the front pushbuttons or via either of the optional serial communications boards. All options are field installable, so you easily upgrade as your needs change.

COMMON SPECIFICATIONS FOR INFINITY® METERS

Accuracy: $\pm 0.005\%$ rdg**Span Temperature Coefficient:** ± 20 ppm**Step Response:** 1 sec to 99.9%**Warmup to Rated Accuracy:** 50 min**Operating Ambient:** 0 to 50°C (32 to 122°F), 95%RH, non-condensing**Storage Ambient:** -40 to 85°C (-40 to 185°F)**Power:** 115 or 230 Vac, 49-400 Hz; 10 to 32 Vdc**Power Consumption:** 6 W nominal, 10 W max.**Normal Mode Rejection:** 60 dB**Common Mode Rejection:** 120 dB**Common Mode Voltage:** 1500 V peak per Hv test**Resolution:** 15-bit**Conversion:** dual-slope technique**Reading Rate:** 3/sec or 13/sec, 60 Hz; 3/sec or 12/sec, 50 Hz**Display:** red or green 6-digit, 14-segment, 13.7 mm (0.54"); 4 alarm indicators**Dimensions:** 48 H x 96 W x 165 D mm (1.89" x 3.78" x 6.5")**Panel Cutout:** 45 H x 92 W mm (1.772" x 3.622"); 1/8 DIN**Weight:** 574 g (1.27 lb)**TTL Outputs:** four, isolated open collector; rated 150 mA at 1 V sink, 30 V open**Dual Relays:** form C, 7 A at 30 Vdc or 230 Vac**BCD Output:** isolated, tri-state, TTL/CMOS compatible; external 5 V supply for isolated; internal 5 V supply for non-isolated**Four Relay Option:** dual 7A relays and dual 1 A relays**Analog Output:** 0-5 V/1-5 V/0-10 V/0-20 mA/4-20 mA, user selectable; 354 Vp isolation; 14-bit resolution; 0.1% accuracy, 50 msec step response**RS-232 Communications:** 300/600/1200/2400/4800/9600/19.2k baud; RJ11 4-wire connection; complete program setup and message display capability; programmable to transmit current display, alarm status, min/max, actual measured input value and status**RS-485 Communications:** 300/600/1200/2400/4800/9600/19.2k baud; RJ12 6-wire connection; addressable from 0 to 199**Voltage Input Ranges:** 0-100 mV, 0-1 V, 0-5 V, 1-5 V, 0-10 V, 0-100 V, ± 50 mV, ± 500 mV, ± 5 V, ± 50 V**Current Input Ranges:** 0-20 mA, 4-20 mA**Input Configuration:** single-ended**Polarity:** unipolar/bipolar, programmable**Span Adjustment:** +0.00001 to 500,000, programmable**Offset Adjustment:** 0 to 999,999 or 0 to -99,999, programmable**Sensor Excitation:** 24 V at 25 mA for loop power

Product Selection (Specify Model Number, see variations below in partnumber builder table) Add		
Part Number	Description	Qty.
INFP-0000-C2	INFINITY® process meter, 115 Vac power, red LED display, open collector outputs, 4-20 mA input	
INFP-0000-DC1	INFINITY® process meter, 115 Vac power, red LED display, open collector outputs, 0-100 mV input	
INFP-0001-C2	INFINITY® process meter, 115 Vac power, red LED display, open collector outputs, isolated RS-232 output, 4-20 mA input	
INFP-0011-C2	INFINITY® process meter, 115 Vac power, red LED display, open collector outputs, isolated analog and RS-232 outputs, 4-20 mA input	

INFP-0211-DC1	INFINITY® process meter, 115 Vac power, red LED display, two 7A relays, isolated analog and RS-232 outputs, 0-100 mV input
INFP-2012-C2	INFINITY® process meter, 115 Vac power, green LED display, open collector outputs, isolated analog and RS-485 outputs, 4-20 mA input
Accessories	
9SC2	9-pin serial connector with RJ-11 jack for RS-232
9SC4	9-pin serial connector with RJ-12 jack for RS-485
25SC2	25-pin serial connector with RJ-11 jack for RS-232
25SC4	25-pin serial connector with RJ-12 jack for RS-485

Part Number Builder						
(1)	(2)	(3)	(4)	(5)	(6)	
INFP	-	0	0	0	0	- DC1
Option Descriptions						
(1) Basic Model						
<i>Select</i>						
INFP for INFINITY® Process Panel Meter						
INFZP for Split meter with remote display						
(2) Power and Display						
<i>Select</i>						
0 for 115 Vac power with red LED display						
1 for 230 Vac power with red LED display						
2 for 115 Vac power with green LED display						
3 for 230 Vac power with green LED display						
4 for 10 to 32 Vdc power with red LED display						
5 for 10 to 32 Vdc power with green LED display						
(3) Control Output						
<i>Select</i>						
0 for four NPN open collector transistors						
1 for isolated parallel BCD						
2 for two 7 A relays						
3 for two 7 A relays and two 1 A relays (not available with 10 to 32 Vdc power option)						
(4) Analog Output						
<i>Select</i>						
0 for no analog output						

1 for isolated analog output

(5) Serial Output

Select

0 for no serial output

1 for isolated RS-232

2 for isolated RS-485

(6) Input Type and Range

Select

DC1 for 0 to 100 mVdc

DC2 for 0 to 1 Vdc

DC3 for 0 to 5 Vdc

DC4 for 1 to 5 Vdc

DC5 for 0 to 10 Vdc

DC6 for 0 to 100 Vdc

DC7 for ± 50 mVdc

DC8 for ± 500 mVdc

DC9 for ± 5 Vdc

DC10 for ± 50 Vdc

C1 for 0 to 20 mA

C2 for 4 to 20 mA

NOTE: All combinations may not be valid, check spec sheet for valid part numbers.