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INFP-4000-C2

EN
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INFINITY® 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 ±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

5 YEAR WARRANTY

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: ±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

Select

INFP for INFINITY® Process Panel Meter
INFZP for Split meter with remote display

(2) Power and Display

Select

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

Select

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

Select

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.

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