NEWPORT® BRAND

OMEGADYNE™

SPEC SHEET
INFP

INFINITY™ SERIES PROCESS METER

1 YEAR WARRANTY

MADE IN USA

Basic Unit
$545

- **6 Digit Display**
- **NEMA 4 (IP65) Front Panel**
- **Four Isolated Open Collector Outputs**
- **Wide Selection of dc Voltage and Curent 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**

Shown with OMEGADYNE™ **PX80** Series Differential Pressure Transmitter Sold Separately. OMEGADYNE℠ FAX # 3610

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 NEMA 4 (IP65) front bezel, this meter offers on-board excitation to let you power virtually any sensor or transmitter.

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 V dc @ 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.

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**

For Sales and Service In U.S.A. and Canada

1-800-872-3963℠
1-800-USA-DYNE

International Customers Dial
(614) 965-9340
24-Hour FAX (614) 965-9438

OMEGADYNE℠ FAX
OMEGADYNE's 24-Hour On-Line Publishing Service
1-800-344-3963℠
1-800-DIG-DYNE
Document # 101

OMEGADYNE, Inc.
149 Stelzer Court, Sunbury, OH 43074
http://www.omegadyne.com
e-mail: info@omegadyne.com

Formerly T-HYDRONICS, INC.

© COPYRIGHT 1996 OMEGADYNE, INC. ALL RIGHTS RESERVED.

See Reverse Side for More Information.

INFINITY™ Series Panel Meters

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"); ⅛ 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; 15-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, supports continuous or command mode

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

Ordering Information, INFINITY™ Series Panel Meters

Prices Shown in U.S. Dollars

Basic Model	Power	BCD/Control Output	Analog Output	Serial Output	Input Type and Range	Description	Price
INFP	( )	( )	( )	( )	( )	Process	**$545**
	0					115 Vac, Red LED	**N/C**
	1					230 Vac, Red LED	**N/C**
	2					115 Vac, Green LED	**N/C**
	3					230 Vac, Green LED	**N/C**
	4					10-32 Vdc, Red LED	**110**
	5					10-32 Vdc, Green LED	**110**
		0				Four open collector	**N/C**
		1				Isolated parallel BCD	**110**
		2				Dual 7 amp relays	**75**
		3				Dual 7 A and dual 1 A relays	**175**
			0			No analog output	**N/C**
			1			Analog output	**110**
				0		No serial output	**N/C**
				1		Isolated RS-232	**110**
				2		Isolated RS-485	**110**
					(*)	Specify range code. See range chart below	**N/C**

Ordering Examples: 1.) INFP0010-DC1 *INFINITY process meter, 115Vac power, red LED display, Analog Output, configured for 0-100mV, $545 + 110 =* ***$655***

2.) INFP3200-C2 *INFINITY process meter, 230Vac power, green LED display, dual 7A relays, configured for 4-20mA, $545+75 =* ***$620.***

Options

Price	Model	Description
$15	**BL**	Blank lens
25	**FS**	Special calibration
30	**9SC2**	9-pin RS-232 connector
30	**9SC4**	9-pin RS-485 connector
30	**25SC2**	25-pin RS-232 connector
30	**25SC4**	25-pin RS-485 connector
50	**OH**	Optional housing (P6000 style)
15	**FP3**	Front panel for OH without pushbuttons

Input Types

Range Code	Range
DC1	0-100 mV
DC2	0-1 V
DC3	0-5 V
DC4	1-5 V
DC5	0-10 V
DC6	0-100 V
DC7	±50 mV
DC8	±500 mV
DC9	±5 V
DC10	±50 V
C1	0-20 mA
C2	4-20 mA

Look for OMEGADYNE™ Products on the World Wide Web!

http://www.omegadyne.com
e-mail: info@omegadyne.com