NEWPORT®

INFINITY® METERS

INFINITY® · 5 YEAR WARRANTY · c UL us LISTED · C E

- ✔ **6 Digits**
- ✔ **NEMA-4 (IP65) Front Bezel**
- ✔ **Four Isolated Open Collector Outputs**
- ✔ **Digital Tare**
- ✔ **1.5 to 11 or 24 Vdc Sensor Excitation**
- ✔ **Peak and Valley Detection and Memory**

The **NEWPORT®** 6-Digit **INFINITY®** family of digital panel meter/controllers represents the world standard for accuracy and quality in industrial instrumentation. Select from instruments designed for: PROCESS (DC Voltage and Current), STRAIN GAGE measurements, TEMPERATURE (Thermocouple and RTD), or the INFINITY® UNIVERSAL for one meter which covers all the input types. The **INFINITY®** WEIGHT meter is a legal for trade NTEP certified strain meter with enhanced features.

INFINITY® meters can measure a broad spectrum of dc voltage and current ranges, nine thermocouple types, a variety of RTDs, a multitude of inputs from pressure transducers, load cells, strain gages as well as potentiometric inputs. Six full digits make this meter ideal for demanding process control applications.

On-board excitation is included so you can power virtually any sensor or transmitter, and four standard setpoints give the flexibility to control or alarm your system completely.

SPECIFICATIONS

Accuracy: ±0.005% rdg
Span Temperature Coefficient: ±20 ppm
Step Response: 1 sec to 99.9%
Power: 115 or 230 Vac, 49-400 Hz; 10 to 32 Vdc
Normal Mode Rejection: 60 dB
Common Mode Rejection: 120 dB
Common Mode Voltage: 1500 V peak per Hv test
Resolution: 17-bit
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
Panel Cutout: 45 H x 92 W mm (1.772 x 3.622"); 1/8 DIN
Open Collector Outputs: four, isolated open collector; rated 150 mA at 1 V sink, 30 V open
BCD Output: isolated, tri-state, TTL/CMOS compatible; external 5 V supply required for isolated; internal 5 V supply for non-isolated

Dual Relays: form C, 7 A at 30 Vdc or 230 Vac
Four Relay Option: dual 7 A 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
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
Thermocouple Input Types: J, K, T, E, R, S, B, N, J DIN
RTD Input: any 6Ω to 6kΩ NIST or DIN platinum and any linear RTD
RTD Connection: 2, 3 or 4-wire
Sensor Excitation: 10 V at 30 mA; 24 V at 25 mA

To Order (* insert number code to complete model number)

Basic Model	Power & Display	Control Output	Analog Output	Serial Output	Input Signal	Description
INFP	(*)	(*)	(*)	(*)	(*)	Process (DC voltage and current)
INFS	(*)	(*)	(*)	(*)	(*)	Strain input
INFW	(*)	(*)	(*)	(*)	(*)	Weight NTEP handbook 44 legal for trade strain input
INFT	(*)	(*)	(*)	(*)	(*)	Temperature (thermocouple and RTD)
INFU	(*)	(*)	(*)	(*)	(*)	Universal Inputs (process, strain, & temperature)
	0					115 Vac power, red LED display
	1					230 Vac power, red LED display
	4					10-32 Vdc power, red LED display
		0				Four NPN open collector transistors
		1				Isolated parallel BCD
		2				Two 7 A relays
		3				Two 7 A relays and two 1 A relays
			0			No analog output
			1			Isolated analog output
				0		No serial output
				1		Isolated RS-232
				2		Isolated RS-485
					( )	Specify input signal from charts below

Input Signal Voltage/Current

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

Input Signal Thermocouple or RTD

J (*)	T (*)	S (*)	RTD1 (*)	10 ohm copper, linear
K (*)	B (*)	N (*)	RTD2 (*)	100 ohm pt, 0.00385 alpha
E (*)	R (*)	J-DIN (*)	RTD3 (*)	100 ohm pt, 0.00392 alpha

** Specify "**C**" (Celsius), "**F**" (Farenheit), or "**K**" (Kelvin)*

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