



- ✓ **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" (Fahrenheit), or "K" (Kelvin)