

- ✓ **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:**  $\pm 0.005\%$  rdg

**Span Temperature Coefficient:**  $\pm 20$  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,  $\pm 50$  mV,  $\pm 500$  mV,  $\pm 5$  V,  $\pm 50$  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  $6\Omega$  to  $6k\Omega$  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        | $\pm 50$ mVdc  |
| DC2        | 0-1 Vdc   | DC8        | $\pm 500$ mVdc |
| DC3        | 0-5 Vdc   | DC9        | $\pm 5$ Vdc    |
| DC4        | 1-5 Vdc   | DC10       | $\pm 50$ 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)