The NEWPORT® i8 is a 1/8 DIN size (96mm x 48mm) Digital Panel Meter featuring the big iSeries color-changing display. The digits are twice the size of typical 1/8 DIN panel meters. The iSeries meters feature the only LED displays that can be programmed to change color between Green, Amber, and Red at any set point or alarm point. The "i8" model is available as an extremely accurate programmable digital panel meter with no outputs or with dual outputs for controlling or alarming functions. Other options include isolated programmable analog output, serial communications, Modbus and Ethernet. The user can easily program the i8 for any control or alarming requirement from simple on-off to full autotune PID with a choice of Form C SPDT relays, Solid State Relays, DC pulse, and Analog (voltage and current) outputs.

Fully Isolated Analog Output for retransmission of the process value is available in addition to the control and alarm relays (specify model i8A33). The i8 covers a broad selection of transducer and transmitter inputs with two input models:

- The UNIVERSAL TEMPERATURE & PROCESS instrument (model "i") handles ten common types of thermocouples, multiple RTD’s, and several Process (DC) Voltage and Current ranges. This model also features built-in excitation, 24 Vdc @ 25 mA. With its wide choice of signal inputs, this model is an excellent choice for measuring or controlling temperature with a thermocouple, RTD, or 4-20mA transmitter.

- The STRAIN & PROCESS instrument (model "iS") measures inputs from Load Cells, Pressure Transducers, and most any strain gauge sensor as well as Process Voltage and Current ranges.

The "iS" has built-in 5 or 10 Vdc excitation for bridge transducers, 5Vdc@ 40mA or 10 Vdc @ 60mA. (Any excitation voltage between 5 and 24 Vdc is available by special order.) This "iS" model supports 4 and 6 wire bridge configurations, ratiometric and non-ratiometric measurements. The "iS" features fast and easy "in process" calibration/scaling of the signal inputs to any engineering units. This model also features 10 Point Linearization which allows the user to linearize the signal input from extremely nonlinear transducers of all kinds. The NEWPORT® i8 1/8 DIN enclosure has a NEMA 4 (IP65) rated front bezel and removable rear connectors for easy installation and wiring.

### Input Type | Range | Accuracy
--- | --- | ---
Process Voltage | 0 to 100 mV, 0 to 1 V, 0 to 10 Vdc | 0.03% rdg
Process Current | 0 to 20 mA (4 to 20 mA) | 0.03% rdg
Iron-Constantan | -210 to 760°C/-346 to 1400°F | 0.4°C/0.7°F
CHROMEGA®-ALOMEGA® | -270 to -160°C/-160 to 1372°C | 1.0°C/0.4°F
-454 to -256°F/-256 to 2502°F | 1.8°F/0.7°F
Copper-Constantan | -270 to -190°C/-190 to 400°C | 1.0°C/0.4°F
-454 to -310°F/-310 to 752°F | 1.8°F/0.7°F
CHROMEGA®-Constantan | -270 to -220°C/-220 to 1000°C | 1.0°C/0.4°F
-454 to -364°F/-364 to 1832°F | 1.8°F/0.7°F
Pt/13%Rh-Pt | -50 to 40°C/40 to 1768°C | 1.0°C/0.5°F
-58 to 104°F/104 to 3214°F | 1.8°F/0.9°F
Pt/10%Rh-Pt | -50 to 100°C/100 to 1768°C | 1.0°C/0.5°F
-58 to 212°F/212 to 3214°F | 1.8°F/0.9°F
30%Rh-Pt/6%Rh-Pt | 100 to 640°C/640 to 1820°C | 1.0°C/0.5°F
212 to 1184°F/1184 to 3308°F | 1.8°F/0.9°F
5%Re-W/26%Re-W | 0 to 2320°C/32 to 4208°F | 0.4°C/0.7°F
Nicrosil-Nisil | -250 to -100°C/-100 to 1300°C | 1.0°C/0.4°F
-418 to -148°F/-148 to 2372°F | 1.8°F/0.7°F
J DIN | -200 to 900°C/-328 to 1652°F | 0.4°C/0.7°F
Pt, 0.00385, 100, 500, 1000 Ω | -250 to -100°C/-100 to 1300°C | 1.0°C/0.4°F
-418 to -148°F/-148 to 2372°F | 1.8°F/0.7°F
Pt, 0.00392, 100, 500, 1000 Ω | -200 to 900°C/-328 to 1652°F | 0.4°C/0.7°F
Pt, 0.00393, 100, 500, 1000 Ω | -200 to 850°C/-328 to 1562°F | 0.4°C/0.7°F
**Series change color**

at any set point

**Totally Programmable Color Displays**

The NEWPORT® i/8, i/16, and i/32 are the first complete series of 1⁄8, 1⁄16 and 1⁄32 DIN process control instruments with totally programmable color displays. The display can be programmed to change color at any setpoint or alarm point.

To Order (*Specify Model No.*)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>i800</td>
<td>Temperature/Process (Monitor only) 1/8 DIN</td>
<td>240</td>
</tr>
<tr>
<td>i8A00</td>
<td>Temperature/Process Monitor with Isolated Analog Output 1⁄8 DIN</td>
<td>295</td>
</tr>
<tr>
<td>i8S00</td>
<td>Strain/Process (Monitor only) 1/8 DIN</td>
<td>275</td>
</tr>
<tr>
<td>i8</td>
<td>Temperature/Process with 2 Control Outputs</td>
<td>310</td>
</tr>
<tr>
<td>i8A</td>
<td>Temperature/Process with Isolated Analog Output and 2 Outputs</td>
<td>365</td>
</tr>
<tr>
<td>i8S</td>
<td>Strain/Process with 2 Control Outputs</td>
<td>370</td>
</tr>
</tbody>
</table>

**CONTROL OUTPUTS #1 & 2 (Direct) or Reverse (Heat Acting)**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>-2</td>
<td>2 solid state relays (SSR's): 0.5 A @ 120/240 Vac continuous</td>
<td>N/C</td>
</tr>
<tr>
<td>-3</td>
<td>SSR and relay: Form &quot;C&quot; SPDT 3 A @ 120 Vac, 3 A @ 240 Vac</td>
<td>N/C</td>
</tr>
<tr>
<td>-4</td>
<td>SSR and pulsed 10 Vdc @ 20 mA (for use with external SSR)</td>
<td>N/C</td>
</tr>
<tr>
<td>-5</td>
<td>2 Relays: Form &quot;C&quot; SPDT 3 A @ 120 Vac, 3 A @ 240 Vac</td>
<td>N/C</td>
</tr>
<tr>
<td>-6</td>
<td>Pulsed 10 Vdc @ 20 mA (for use with external SSR) and SSR</td>
<td>N/C</td>
</tr>
<tr>
<td>-7</td>
<td>Pulsed 10 Vdc @ 20 mA (for use with external SSR) and relay: Form &quot;C&quot; SPDT 3 A @ 120 Vac, 3 A @ 240 Vac</td>
<td>N/C</td>
</tr>
<tr>
<td>-8</td>
<td>Two pulsed 10 Vdc @ 20 mA (for use with external SSR)</td>
<td>N/C</td>
</tr>
</tbody>
</table>

**Analog Output**

- Selectable as either control or retransmission of process value: 0 to 10 Vdc or 0-20 mA @ 500 ohm max. and SSR
- Analog Output 0 to 10 Vdc or 0-20 mA @ 500 ohm max. and Relay

**NETWORK OPTIONS**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>-EI</td>
<td>Ethernet with Embedded Internet</td>
<td>55</td>
</tr>
<tr>
<td>-C24</td>
<td>Isolated RS-232 and RS-485 300 to 19.2 k baud</td>
<td>60</td>
</tr>
<tr>
<td>-C4EI</td>
<td>Ethernet with Embedded Web Server + Isolated RS-485/422 hub for up to 31 devices</td>
<td>115</td>
</tr>
</tbody>
</table>

**POWER SUPPLY**

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>-DC</td>
<td>12-36 Vdc, 24 Vac</td>
<td>N/C</td>
</tr>
</tbody>
</table>

**FACTORY SETUP**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>-FS</td>
<td>Factory Setup and Configuration (req. -C24 Serial Communication option)</td>
<td>25</td>
</tr>
</tbody>
</table>

**SOFTWARE (Requires Network Option)**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPC-SERVER LICENSE</td>
<td>OPC Server/Driver Software License</td>
<td>295</td>
</tr>
</tbody>
</table>

*1 Analog Output (Option 5) and Ethernet Options are not available for the i8A controller.
*2 -DC, -C24, or -C4EI not available with excitation.
*3 Analog Output (Option 5) is not available with -AL units.
*4 For i8A** -AL: One Alarm and One Analog Retransmission.

**Ordering Examples:**
- i8A00 is a 1/8 DIN Meter with isolated scalable analog retransmission of the process value $295.
- i833-AL-C24 is a 1/8 DIN Indicator and Dual Alarm only with serial communication $370.

The NEWPORT® i/8, i/16, and i/32 are the first complete series of 1⁄8, 1⁄16 and 1⁄32 DIN process control instruments with totally programmable color displays. The display can be programmed to change color at any setpoint or alarm point.
** Ultra Compact 1/8 DIN Meter and Controller**
- Built-in Excitation
- NEMA 4 (IP65) Bezel
- RS-232, RS 422/485 or Modbus Communication, Menu Selectable

The Ultra Compact i8C Meters and Controllers are similar to the full size i8 in an Ultra Compact enclosure. Only 2 inches behind the panel.

### To Order (*Specify Model No.*)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>i8C00</td>
<td>Temperature/Process (Monitor only) 1/8 DIN Compact Case</td>
<td>285</td>
</tr>
<tr>
<td>IS8C00</td>
<td>Strain/Process (Monitor only) 1/8 DIN Compact Case</td>
<td>345</td>
</tr>
</tbody>
</table>

**CONTROL OUTPUTS #1 & 2 Direct (Cool) or Reverse (Heat) Acting**

<table>
<thead>
<tr>
<th>i8C</th>
<th>Temperature/Process with 2 Control Outputs Compact Case</th>
<th>355</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS8C</td>
<td>Strain/Process with 2 Control Outputs Compact Case</td>
<td>415</td>
</tr>
</tbody>
</table>

| 2            | 2 solid state relays (SSR's): 0.5 A @ 120/240 Vac continuous | 23     |
| 2            | SSR and relay: Form “C” SPDT 3 A @ 120 Vac, 3 A @ 240 Vac | 24     |
| 3            | 2 SSRs and pulsed 10 Vdc @ 20 mA (for use with external SSR) | 25     |
| 3            | 2 SSRs and pulsed 10 Vdc @ 20 mA (for use with external SSR) | 26     |
| 4            | Pulsed 10 Vdc @ 20 mA (for use with external SSR) and SSR | 27     |
| 4            | Pulsed 10 Vdc @ 20 mA (for use with external SSR) | 28     |
| 4            | Two pulsed 10 Vdc @ 20 mA (for use with external SSR) | 29     |
| 5            | Analog Output selectable as either control or retransmission of process value; 0 to 10 Vdc or 0-20 mA @ 500 ohm max. and SSR | 30     |
| 5            | Analog Output 0 to 10 Vdc or 0-20 mA @ 500 ohm max. and Pulse 10 Vdc | 31     |
| 5            | Analog Output 0 to 10 Vdc or 0-20 mA @ 500 ohm max. and Pulse 10 Vdc -AL | 32     |

**NETWORK OPTIONS**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>-C24</td>
<td>Isolated RS-232 and R-485/422. 300 to 19.2k Baud **</td>
<td>60</td>
</tr>
</tbody>
</table>

**POWER SUPPLY**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>-DC</td>
<td>12-36 Vdc, 24 Vac **</td>
<td>N/C</td>
</tr>
<tr>
<td></td>
<td>Standard power input: 90-240 Vac/dc, 50-400 Hz (no entry required)</td>
<td>25</td>
</tr>
</tbody>
</table>

**FACTORY SETUP**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>-FS</td>
<td>Factory Setup and Configuration (req. -C24 Serial Communication option)</td>
<td>N/C</td>
</tr>
</tbody>
</table>

**SOFTWARE (Requires Network Option)**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>EIS-W</td>
<td>iServer MicroServer, serves 32 devices See iServer MicroServer Products for Complete Details</td>
<td>195</td>
</tr>
<tr>
<td>OPC-SERVER LICENSE</td>
<td>OPC Server/Driver Software License</td>
<td>295</td>
</tr>
</tbody>
</table>

**Note:**
- * -DC, -C24, not available with excitation.
- **2 Analog Output (Option S) is not available with -AL units.
- ORDERING EXAMPLES: i8C33 is a 1/8 DIN Compact universal temperature process controller with 2 relay output"295
Universal Temperature & Process Input (Model “I”)

- Accuracy: ±0.5°C temp; 0.03% reading process
- Resolution: 10µV
- Temperature Stability: 50 ppm/°C
- A/D Conversion: Dual slope
- Reading Rate: 3 samples per second
- Digital Filter: Programmable
- Input Types: Analog Voltage, Analog Current
- Voltages: 5 Vdc @ 40 mA; 10 Mohm for 100 mV
- NMRR: 60 dB
- CMRR: 120 dB
- Input Impedance: 10 Mohm for 100 mV
- Voltage Input: 0 to 10 Vdc
- Input Impedance: 1 Mohm for 1 or 10 Vdc
- Current Input: 0 to 20 mA
- Reverse (heat) or direct (cool)

Control

- Action: Reverse (heat) or direct (cool)
- Modes: Time and Amplitude Proportional
- Control Modes; selectable Manual or Auto
- PID, Proportional. Proportional with Integral, Proportional with Derivative with Anti-reset Windup and ON/OFF
- Rate: 0 to 399.9 seconds
- Reset: 0 to 3999 seconds
- Cycle Time: 1 to 199 seconds; set to 0 for ON/OFF operation
- Gain: 0.5 to 100% of span
- Setpoints 1 or 2
- Damping: 0000 to 0008
- Soak: 00.00 to 99.59 (HH:MM), or OFF
- Ramp to Setpoint: 00.00 to 99.59 (HH:MM), or OFF
- Auto Tune: Operator initiated from front panel

Control Output 1 & 2

- Relay: 250 Vac or 30 Vdc @ 3 A (Resistive Load); adjustable for on/off
- PID and Ramp and Soak
- Output 1: SPDT type, can be configured as Alarm 1 output
- Output 2: SPDT type, can be configured as Alarm 2 output
- SSR: 20-265 Vdc @ 0.05 - 0.5 A (Resistive Load); continuous
- DC Pulse: Non-Isolated;
- 10 Vdc @ 20 mA
- Analog Output (Output 1 only):
- Non-Isolated, Proportional 0 to 10 Vdc or 0 to 20 mA; 500 Vdc ±10%

Network and Communications (Optional -C24, -C4EI, -EI)

- Ethernet: Standards Compliance IEEE 802.3 10Base-T
- Supported Protocols: TCP/IP, ARP, HTTP/GET
- RS-232/422/485: select from menu; both ASCII and Modbus protocol
- RS-232/422/485: programmable from menu. Programmable 300 to 19.2 K baud; complete programmable setup capability; program to transmit current display, alarm status, min/max, actual measured input value and status
- RS-485: Addressable from 0 to 199
- Connection: Screw terminals

Alarm 1 & 2 (programmable)

- Type: Same as Output 1 & 2
- Operation: High/low, above/below, band, latch/unlatch, normally open/normally closed and process/deviation; front panel configurations
- Analog Output (programmable):
- Non-Isolated, Retransmission 0 to 10 Vdc or 0 to 20 mA, 500 Vdc ±10% (Output 1 only).
- Accuracy is ±1% of FS when following conditions are satisfied.
  1) Input is not scaled below 1% of Input FS.
  2) Analog Output is not scaled below 3% of Output FS.

Universal Strain & Process Input (Model “IS”)

- Accuracy: 0.03% reading
- Resolution: 10µV
- Temperature Stability: 50 ppm/°C
- A/D Conversion: Dual slope
- Reading Rate: 3 samples per second
- Digital Filter: Programmable
- Input Types: Analog Voltage, Analog Current
- Voltages: 5 Vdc @ 40 mA; 10 Mohm for 100 mV
- NMRR: 60 dB
- CMRR: 120 dB
- Input Impedance: 10 Mohm for 100 mV
- Voltage Input: 0 to 100 mV, 0 to 1 V, 0 to 10 Vdc
- Input Impedance: 10 Mohm for 1 or 10 Vdc
- Current Input: 0 to 20 mA (5 ohm load)
- Current Input: 0 to 20 mA
- Configuration: Single-ended
- Polarity: Unipolar
- Step Response: 0.7 sec for 99.9%
- Decimal Selection: None, 0.1, 0.01 or 0.001
- Setpoint Adjustment: -999 to 9999 counts
- Span Adjustment: 0.001 to 9999 counts
- Offset Adjustment: -999 to 9999
- Excitation (optional in place of Communication): 5 Vdc @ 40 mA; 10Vdc@60mA

Power

- Power: 24 Vac** ±10%, 12 - 36 Vdc, from qualified safety approved source.

Isolation

- Power to Input or Output: 2500 Vac per 1 minute test (RS-232/485, Input or Output)
- For Low Voltage Power Option:
  1500 Vac per 1 minute test (RS-232/485, Input or Output)

Relay/SSR to Relay/SSR Option:

- 2500 Vac per 1 minute test (RS-232/485 to Input/Options: 500 Vac per 1 minute test

Environmental Conditions:

- 0 to 50°C (32 to 122°F), 90% RH non-condensing - 8DV, 8DH, i6D;
- 0 to 55°C (33-131°F) 90% RH non-condensing - i8, i16, i32.

Installation Category:

- II per EN61010-1
- Equipment Class: II per EN61010-1
- Pollution Degree: 2 per EN61010-1

Protection:

- NEMA-4 (IP65) front bezel

Approvals:

- UL, C-UL, CE per EN50081-1, EN50082-2, EN61010-1

Dimensions

- i/8 Series: 48 H x 96 W x 127 mm D (1.89 x 3.83 x 5")
- i/16 Series: 48 H x 48 W x 127 mm D (1.89 x 1.89 x 5")
- i/32 Series: 25.4 H x 48 W x 127 mm D (1.0 x 1.89 x 5")

Panel Cutout

- i/8 Series: 45 H x 92 mm W (1.772" x 3.622"), 1/8 DIN
- i/16 Series: 45 mm (1.772") square, 1/16 DIN
- i/32 Series: 22.5 H x 45 mm W (0.886" x 1.772"), 1/32 DIN

Weight

- i/8 Series: 295 g (0.65 lb)
- i/16 Series: 159 g (0.35 lb)
- i/32 Series: 127 g (0.28 lb)

* No CE compliance above 60 Hz
** Units can be powered safely with 24Vac power, but no certification for CE/UL are claimed

Totally Programmable Color Displays

change color at any set point.
The NEWPORT i8DH and i8DV are high quality, highly accurate single loop Autotune PID Temperature and Process Controllers for 1/8 DIN (96mm x 48mm) horizontal or vertical panel cutouts. Both devices feature the same state of the art technology, uncompromising accuracy, and quality backed by an extended 5-year warranty.

The i8DH and i8DV are simple to configure and use, while providing tremendous versatility and a wealth of powerful features.

The i8DH and i8DV come standard with your choice of two control or alarm outputs in almost any combination: solid state relays (SSR) rated at 0.5A @120/240 Vac; Form "C" SPDT (Single Pole Double Throw) relays rated at 3 amps @120/240 Vac; pulsed 10 Vdc output for use with an external SSR; or Analog Output (0-10 Vdc or 0-20mA) selectable for control or retransmission of the process value.

The UNIVERSAL TEMPERATURE & PROCESS instrument (model “i”) offers a selection of 10 thermocouple types as well as 2, 3 or 4 wire RTD's, process voltage and current. The i8DH and i8DV are ideal controllers for use with transmitters and amplified transducers. Built in excitation is standard (24Vdc @ 25mA). The devices handle 0-20mA Process Current and Process Voltage in three scales: 0-100mV, 0-1V, and 0-10V.

As with all iSeries devices, the Process Value display can be programmed to change color between Green, Amber and Red at any set point or alarm point. The LED's displaying the Process Value on the i8DH (horizontal 1/8 DIN) are the largest digits of any 1/8 DIN controller.

The STRAIN/PROCESS instrument (model “iS”) meters and controllers measure inputs from Load Cells, Pressure Transducers, and most any strain gauge sensor. Input ranges include 0 to 100 mVdc, -100 mVdc to 1 Vdc, 0 to 10 Vdc in addition to 0-20 mA. Excitation for transducers of 5 Volt and 10 Volt is standard.

The highly recommended Networking and Communications options include direct Ethernet LAN connectivity with an Embedded Web Server, and serial communications. The C24 serial communications option includes both RS-232 and RS-485 which can be selected from the menu as well as both a straightforward ASCII protocol or MODBUS.

The C4EI option includes both Ethernet and RS-485 ASCII/MODBUS on one device.

The iSeries are designed for easy integration with popular industrial automation, data acquisition and control programs as well as Microsoft Visual Basic and Excel. NEWPORT provides free configuration and data acquisition software and demos which makes it fast and easy to get up and running with many applications.

The initially recommended Networking and Communications options include direct Ethernet LAN connectivity with an Embedded Web Server, and serial communications. The C24 serial communications option includes both RS-232 and RS-485 which can be selected from the menu as well as both a straightforward ASCII protocol or MODBUS.

The C4EI option includes both Ethernet and RS-485 ASCII/MODBUS on one device.

The iSeries are designed for easy integration with popular industrial automation, data acquisition and control programs as well as Microsoft Visual Basic and Excel. NEWPORT provides free configuration and data acquisition software and demos which makes it fast and easy to get up and running with many applications.
The I/8 Series controllers feature plug/removable connectors and a sturdy panel mounting sleeve with adjustable thumb nuts for easy secure installation.

To Order (*Specify Model No.)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>i8DH (<em>)(</em>)</td>
<td>Temperature/Process 1/8 DIN Dual Display Horizontal with 2 Control Outputs</td>
<td>340</td>
</tr>
<tr>
<td>i8DV (<em>)(</em>)</td>
<td>Temperature/Process 1/8 DIN Dual Display Vertical with 2 Control Outputs</td>
<td>340</td>
</tr>
<tr>
<td>iS8DH (<em>)(</em>)</td>
<td>Strain/Process 1/8 DIN Dual Display Horizontal with 2 Control Outputs</td>
<td>400</td>
</tr>
<tr>
<td>iS8DV (<em>)(</em>)</td>
<td>Strain/Process 1/8 DIN Dual Display Vertical with 2 Control Outputs</td>
<td>400</td>
</tr>
<tr>
<td>2</td>
<td>Two solid state relays (SSR's): 0.5 A @ 120/240 Vac continuous</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>SSR and relay: Form &quot;C&quot; SPDT 3 A @ 120 Vac, 3 A @ 240 Vac</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>SSR and pulsed 10 Vdc @ 20 mA (for use with external SSR)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2 Relays: Form &quot;C&quot; SPDT 3 A @ 120 Vac, 3 A @ 240 Vac</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Pulsed 10 Vdc @ 20 mA (for use with external SSR) 3 A Solid State</td>
<td>N/C</td>
</tr>
<tr>
<td>4</td>
<td>Pulsed 10 Vdc @ 20 mA (for use with external SSR) and relay: Form &quot;C&quot; SPDT 3 A @ 120 Vac, 3 A @ 240 Vac</td>
<td>N/C</td>
</tr>
<tr>
<td>4</td>
<td>Two pulsed 10 Vdc @ 20 mA (for use with external SSR)</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Analog Output selectable as either control or retransmission of process value: 0 to 10 Vdc or 0-20 mA @ 500 ohm max. and SSR</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Analog Output 0 to 10 Vdc or 0-20 mA @ 500 ohm max. and Relay</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Analog Output 0 to 10 Vdc or 0-20 mA @ 500 ohm max. and Pulse 10 Vdc</td>
<td></td>
</tr>
</tbody>
</table>

**NETWORK OPTIONS**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
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<tbody>
<tr>
<td>-EI</td>
<td>Ethernet with Embedded Web Server</td>
<td>55</td>
</tr>
<tr>
<td>-C24</td>
<td>Isolated RS-232 and RS-485/422, 300 to 19.2k Baud *1</td>
<td>60</td>
</tr>
<tr>
<td>-C4EI</td>
<td>Ethernet with Embedded Web Server + Isolated RS-485/422 hub for up to 31 devices *1</td>
<td>115</td>
</tr>
</tbody>
</table>

**POWER SUPPLY**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>-DC</td>
<td>Standard power input: 90-240 Vac/dc, 50-400 Hz (no entry required)</td>
<td>N/C</td>
</tr>
<tr>
<td></td>
<td>12-36 Vdc, 24 Vac *1</td>
<td>25</td>
</tr>
</tbody>
</table>

**FACTORY SETUP**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>-FS</td>
<td>Factory Setup and Configuration (req. -C24 Serial Communication option)</td>
<td>N/C</td>
</tr>
</tbody>
</table>

**SOFTWARE (Requires Network Option)**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPC-SERVER LICENSE</td>
<td>OPC Server/Driver Software License</td>
<td>295</td>
</tr>
</tbody>
</table>

*1 -DC, -C24, or -C4EI not available with excitation.
*2 Analog Output (Option 5) is not available with -AL units.

ORDERING EXAMPLES: i8DH43 is a horizontal 1/8 DIN Dual display with pulse and relay 340
$180

1/16 DIN meter

$225
with 2 control outputs

- High Quality
- 5-Year Warranty
- High Accuracy ±0.5°C (0.9°F), 0.03% Reading
- First 1/16 DIN Controller with Totally Programmable Color Displays (Standard)
- User-friendly, Simple to Configure
- Free Software
- Full Autotune PID Control
- Universal Inputs: Thermocouple, RTD, Process Voltage/Current, Strain
- Embedded Ethernet connectivity

The NEWPORT® i16 is the popular 1/16 DIN size (48mm square) meter or controller. The meter (model “i1600”) displays the process value and has no control outputs.

The controller is available with a single (model “i16”) or dual display (model “i16D”) that displays a set point along with the process value. The i16 display can be programmed to change color at any set point or alarm point. The i16 is the first 1/16 DIN controller with the option of both RS-232 and RS-485 serial communications in one instrument with both MODBUS serial protocol and the straightforward NEWPORT® ASCII protocol. And of course the i/16 is the first 1/16 DIN Controller that can connect directly to an ethernet network and features an embedded web server. NEWPORT® provides free configuration and data acquisition software for the iSeries on CD-ROM and for download off the Web.

The i16 enclosure has a NEMA 4 (IP65) rated front bezel. The electronics are removable from the front panel.

Access Vital information Anytime, Anywhere, on the World Wide Web

$295

1/16 DIN Controller With Embedded Web Server, Dual Control Outputs, Dual Display
The NEWPORT® i32 is the iSeries meter/controller in the extremely compact and increasingly popular 1/32 DIN size. The i32 is the most sophisticated and accurate instrument available in the small 1/32 DIN package, yet is still easy to configure.

The i32 handles more thermocouple, RTD, process voltage and current inputs than any other 1/32 DIN controller.

The i32 is the first 1/32 DIN controller with built-in excitation for transmitters or other devices, 24 Vdc, Standard.

This model also features 10 Point Linearization which allows the user to linearize the signal input from extremely nonlinear transducers of all kinds.

The i32 and IS32 introduce a number of unique features not yet found on any other 1/32 DIN instrument. The i32 and IS32 are the first 1/32 DIN controllers with a totally programmable display that can change color at any set point or alarm point. The unique 9-segment LED characters greatly improves alphanumeric representations.

The i32 and IS32 are the first 1/32 DIN controllers offering 2 SPDT (Single Pole Double Throw) Form C relays, instead of the single throw relays on typical 1/32 DIN controllers.

The i32 and IS32 are the first to offer both RS-232 and RS-485 serial communications in one instrument (C24 option). Both ASCII protocol and modbus protocol are selectable from the menu.

The iSeries displays feature unique 9-segment LED characters, which greatly improves alphanumeric representations. The 7-segment LED characters found on most instruments are adequate for presenting numbers, but not letters. Words are easier to read with the unique 9-segment LED characters on the iSeries, which makes operating and programming simpler and easier.

The iSeries displays feature unique 9-segment LED characters, which greatly improves alphanumeric representations.
Process & Strain Meters & PID Controllers

To Order (*Specify Model No.)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3200</td>
<td>Temperature/Process (Monitor only) 1/32 DIN</td>
<td>150</td>
</tr>
<tr>
<td>iS3200</td>
<td>Strain/Process (Monitor only) 1/32 DIN</td>
<td>195</td>
</tr>
</tbody>
</table>

CONTROL OUTPUTS #1 & 2 Direct (Cool) or Reverse (Heat) Acting

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>i32</td>
<td>Temperature/Process with 2 Control Outputs</td>
<td>195</td>
</tr>
<tr>
<td>iS32</td>
<td>Strain/Process with 2 Control Outputs</td>
<td>240</td>
</tr>
</tbody>
</table>

- Two solid state relays (SSR's): 0.5 A @ 120/240 Vac continuous
- SSR and relay: Form “C” SPDT 3 A @ 120 Vac, 3 A @ 240 Vac
- SSR and pulsed 10 Vdc @ 20 mA (for use with external SSR)
- 2 Relays: Form “C” SPDT 3 A @ 120 Vac, 3 A @ 240 Vac
- Pulsed 10 Vdc @ 20 mA (for use with external SSR) and SSR
- Two pulsed 10 Vdc @ 20 mA (for use with external SSR)
- Analog Output selectable as either control or retransmission of process value; 0 to 10 Vdc or 0-20 mA @ 500 ohm max. and SSR
- Analog Output 0 to 10 Vdc or 0-20 mA @ 500 ohm max. and Relay

NETWORK OPTIONS

<table>
<thead>
<tr>
<th>Option</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>-C24</td>
<td>60</td>
</tr>
</tbody>
</table>

POWER SUPPLY

<table>
<thead>
<tr>
<th>Option</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>-DC</td>
<td>25</td>
</tr>
</tbody>
</table>

FACTORY SETUP

- FS Factory Setup and Configuration (req. -C24 Serial Communication option) | N/C |

SOFTWARE (Requires Network Option)

<table>
<thead>
<tr>
<th>Option</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>-AL</td>
<td>295</td>
</tr>
</tbody>
</table>

The “iServer” is a DIN rail mounted device which can be a hub connecting up to 32 instruments to the Ethernet and Internet. The “iServer” is both a Web Server and an Ethernet-Serial bridge. To connect to the iServer, iServer devices must feature the “C24” Serial Communications option.
Temperature + Humidity

- Temperature
- Relative Humidity
- Dew Point
- Web Server
- Accurate Readings
- Password Protection
- Email Alarms
- Data Logging
- Virtual Chart Recorder

View Temperature + Humidity with a Web Browser

The NEWPORT® iTHX transmitter lets you monitor and record Temperature, Relative Humidity and Dew Point over an Ethernet network or the Internet with no special software except a Web browser.

The NEWPORT iTHX serves Active Web Pages to display real time readings, display charts of temperature and humidity, or log data in standard data formats for use in a spreadsheet or data acquisition program such as Excel or Visual Basic.

Adjustable Charts

The JAVA™ Applet chart scales are fully adjustable on the fly. For example, the chart can display one minute, one hour, one day, one week, one month or one year.

Users can select channel 1, channel 2 or the difference of the two channels. Temperature and RH can be charted across the full span (0-70°C, and 10-90% RH) or within any narrow range such as (20-30°C).

Award-winning Technology

The NEWPORT iTHX is simple to install and use, and features NEWPORT’S award winning i® Server technology that requires no special software except a Web browser.

The iTHX connects to an Ethernet Network with a standard RJ45 connector and sends data in standard TCP/IP packets. It is easily configured with a simple menu using a Web browser and can be password protected. From within an Ethernet LAN or over the Internet, the user simply types its IP address or an easy to remember name such as “Cleanroom 5” or “Midwest Server Room” in any Web Browser, and the iTHX serves a Web Page with the current readings.

The iTHX comes complete with one temperature/humidity probe, however users may purchase an additional probe for two channel monitoring and differential measurement.

Alarms and Email

If temperature or humidity exceed a set limit, the iTHX can trigger an alarm that can be sent by email to an Internet enabled pager or cell phone.

Customer Service

The NEWPORT iTHX comes complete with full documentation, and firmware. NEWPORT iServer products are designed and manufactured in Santa Ana, California. NEWPORT provides generous technical support.
Sensor Specifications

Relative Humidity (RH)
Range: 10 to 90%
Accuracy: ±2%
Non-linearity: ±3%
Response Time: <4 sec.
Repeatability: ±0.1%
Resolution: 0.03%

Temperature (T)
Range: 0°C to 70°C (32°F to 158°F)
Accuracy: ±0.5°C @ 25°C
Response Time: ≤5 sec.
Repeatability: ±0.1°C
Resolution: 0.01°C

Operating Temperature:
0°C to 70°C (32°F to 158°F)

Physical Dimensions
Industrial Probe:
137mm Length x 16mm Diameter
(5” x 0.63” )

iServer Specifications

Interfaces
Ethernet: 10Base-T (RJ45)
Sensor: Digital 2-wire (DB-9)

Supported Protocols
TCP/IP, UDP/IP, ARP, ICMP, DHCP, DNS, HTTP, and Telnet

Indicators (LED’s)
Power, Network Activity, Network Link, Serial Transmit and Receive

Processor
Enhanced 8051, 22 MHz

Memory
512 Kbytes Flash, 16 Kbytes SRAM

Management
Device configuration and monitoring through embedded WEB server (Fig.1)

Embedded WEB Server
Serves WEB pages containing real-time data (Fig.2) and live updated charts within definable time intervals.

Power Input - DIN Rail Enclosure
(AC Power supply sold separately)
Input: 10-32 Vdc
Consumption: 2 W max.

Environmental
Operating Temperature: 0 to 70°C
(32 to 158°F)
Storage Temperature: -40 to 125°C
(-40 to 257°F)

Packaging - DIN Rail Enclosure
Material: Polycarbonate case with DIN Rail mount
Dimensions: 90.2H x 25.1W x 115.0Dmm
(3.54 x .99 x 4.53 in)
Weight: 113 kg (0.25 lbs.)

Agency Approvals
TBD

Software
Firmware upgradeable. Including an Excel program for automatic data logging within definable time intervals, compatible with all Windows operating systems.

Temperature + Humidity

Model No. Description Price*
ITHX-2 iServer MicroServer™ with Temp + Humidity 295

Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITHP-2</td>
<td>Industrial Probe 2” (51mm), cable 3ft (0.9m)</td>
<td>115</td>
</tr>
<tr>
<td>ITHP-5</td>
<td>Industrial Probe 5” (137mm), cable 20ft (6.1m)</td>
<td>125</td>
</tr>
<tr>
<td>DB9-CA-3</td>
<td>Extension Cable, 3 ft (0.9m) with DB9 Connector</td>
<td>15</td>
</tr>
<tr>
<td>iDRN-PS-1000</td>
<td>Power Supply (switching), 95 to 240 Vac input,</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>24 Vdc output @ 850mA (power up to 7 units)</td>
<td></td>
</tr>
</tbody>
</table>

* Volume discounts are available
The NEWPORT iTH Series instruments monitor and control both temperature and relative humidity. All meters and controllers in the series are high quality, highly accurate instruments featuring Newport’s award-winning iSeries technology, uncompromising accuracy, and Made in the U.S.A. quality, backed by an extended 5-year warranty.

The instruments are simple to configure and use, while providing tremendous versatility and a wealth of powerful features. The NEWPORT iTH Series instruments are available either as monitors or controllers. The monitors are extremely accurate programmable digital panel meters displaying humidity, temperature, or dew point. The controllers also provide dual loop control for both humidity and temperature and are easily programmed for any control or alarming requirement from simple on-off to full autotune PID control.

The NEWPORT iTH series LED displays can be programmed to change color between Green, Amber, and Red at any set point or alarm point. The iTH controller models offer a choice of two control or alarm outputs in almost any combination: solid state relays (SSR); Form “C” SPDT (Single Pole Double Throw) relays; pulsed 10 Vdc output for use with an external SSR; or Analog Output selectable for control or retransmission of the process value. The Networking and Communications options (highly recommended) include direct Ethernet LAN connectivity with an Embedded Web Server, and serial communications. The C24 serial communications option includes both RS-232 and RS-485. Protocols include both MODBUS and a straightforward ASCII protocol. The C4EI option includes both Ethernet and RS-485 ASCII/MODBUS on one device.

The iTH Series meters and controllers are designed for easy integration with popular industrial automation, data acquisition and control programs as well as Microsoft Visual Basic and Excel. NEWPORT® provides free configuration and data acquisition software and demos which makes it fast and easy to get up and running with many applications.

**SPECIFICATIONS**

**Control**
- Action: Reverse (heat) or direct (cool)
- Modes: Time and Amplitude Proportional
- Control Modes: selectable Manual or Auto PID, Proportional, Proportional with Integral, Proportional with Derivative with Anti-reset Windup and ON/OFF
- Rate: 0 to 399.9 seconds
- Reset: 0 to 3999 seconds
- Cycle Time: 1 to 199 seconds; set to 0 for ON/OFF operation
- Gain: 0.5 to 100% of span; Setpoints 1 or 2
- Damping: 0000 to 0008
- Soak: 00.00 to 99.59 (HH:MM), or OFF
- Ramp to Setpoint: 00.00 to 99.59 (HH:MM), or OFF
- Auto Tune: Operator initiated from front panel for one input at a time only
**Control Output 1 & 2**

- Relay: 250Vac or 30Vdc @ 3A (resistive load); configurable for on/off, PID, Ramp and Soak
- Output 1: SPDT type, can be configured as Alarm 1 output. Output 2: SPDT type, can be configured as Alarm 2 output
- SSR: 20-265Vac @ 0.05 - 0.5A (resistive load); continuous

**DC Pulse**
- Non-Isolated: 10 Vdc @ 20 mA
- Analog Output (Output 1 only); Non-Isolated. Proportional 0 to 10Vdc or 0 to 20mA; 500Ω max

**Alarm 1 & 2 (programmable)**
- Input is not scaled below 1% of Input FS when following conditions are satisfied.
- Analog Out is not scaled below 3% of Output FS.

**Analog Output (programmable):**
- Relays: Control Output 1 & 2
- Alarm 1 & 2
  - Type: latch/unlatch, normally open/normally closed and
  - DC Pulse:
    - Continuous
  - Alarm 1 & 2 configured as Alarm 2 output
  - Alarm 1 output.

**Relay:**
- configurable for on/off, PID, Ramp and Soak
- max (Output 1 only). Accuracy is ± 1% of FS

**Folded Input:**
- Input is not scaled below 1% of Input FS when following conditions are satisfied.
- Analog Out is not scaled below 3% of Output FS.

**Max Temperature:**
- ±0.5°C (±1°F) for 0 to 80°C (32 to 176°F)
- ±1°C (±2°F) for 0 to 0°C & 80 to 124°C (-40 to 32°F & 176 to 254°F)

**Resolution:**
- 0.1

**A/D Conversion:**
- 12 bit RH and 14 bit Temp.

**Reading Rate:**
- 2 samples per second max.

**Digital Filter:**
- Programmable

**Excitation:**
- (optional in place of Communication)
- 24 Vdc @ 25 mA

**Supported Protocols:**
- TCP/IP, ARP, HTTP, GET

**Network and Serial Communications**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>iTH-i8DH</td>
<td>Temperature and RH Input 1/8 DIN Dual Display Horizontal</td>
<td>$390</td>
</tr>
<tr>
<td>iTH-i8DV</td>
<td>Temperature and RH Input 1/8 DIN Dual Display Vertical</td>
<td>$490</td>
</tr>
<tr>
<td>iTH-i8</td>
<td>Temperature and RH Input 1/8 DIN Single Display</td>
<td>$390</td>
</tr>
<tr>
<td>iTH-116D</td>
<td>Temperature and RH Input 1/16 DIN Dual Display</td>
<td>$490</td>
</tr>
<tr>
<td>iTH-i32</td>
<td>Temperature and RH Input 1/32 DIN Single Display</td>
<td>$390</td>
</tr>
</tbody>
</table>

**To Order (Specify Model No.)**

**Model Number**

- iTH-i8DH
- iTH-i8DV
- iTH-i8
- iTH-116D
- iTH-i32

**Description**

- Temperature and RH Input 1/8 DIN Dual Display Horizontal
- Temperature and RH Input 1/8 DIN Dual Display Vertical
- Temperature and RH Input 1/8 DIN Single Display
- Temperature and RH Input 1/16 DIN Dual Display
- Temperature and RH Input 1/32 DIN Single Display

**Price**

- $390
- $490

**RH/Temperature Probe (must select one)**

- 2” (51mm) Probe for iTH with 3ft (0.9m) cable
- 5” (137mm) Probe for iTH with 20ft (6.1m) cable

**Power Supply**

- Standard power input: 90-240 Vac ±10%, 50-400 Hz, 110-375 Vdc, equivalent voltage (*no entry required*)
- Low Voltage Power Option: 12 - 36 Vdc; 24 Vac ±10%*1

**Network Options**

- Ethernet with Embedded Web Server
- Isolated RS-232 and RS-485/422 hub for up to 31 devices

**Factory Setup**

- Factory Setup and Configuration (requires network option)

**Software (Requires Network Option)**

- OPC Server/Driver Software License

**Ordering Examples:**

- iTH-i8DH-3-C4EI is a horizontal 1/8 DIN Dual display with pulse and relay, a 5” probe and Ethernet with Embedded Web Server *$490 + $605

For other General Specifications, refer to the iSeries Common Specs page.
View Temperature + Humidity with a Web Browser

The NEWPORT® i.THX transmitter lets you monitor and record Temperature, Relative Humidity and Dew Point over an Ethernet network or the Internet with no special software except a Web browser.

The NEWPORT iTHX serves Active Web Pages to display real time readings, display charts of temperature and humidity, or log data in standard data formats for use in a spreadsheet or data acquisition program such as Excel or Visual Basic.

Adjustable Charts

The JAVA™ Applet chart scales are fully adjustable on the fly. For example, the chart can display one minute, one hour, one day, one week, one month or one year. Users can select channel 1, channel 2 or the difference of the two channels. Temperature and humidity can be charted across the full span (0-70°C, and 10-90% RH) or within any narrow range such as (20-30°C).

Award-winning Technology

The NEWPORT iTHX is simple to install and use, and features NEWPORT’S award winning iServer technology that requires no special software except a Web browser.

The iTHX connects to an Ethernet Network with a standard RJ45 connector and sends data in standard TCP/IP packets. It is easily configured with a simple menu using a Web browser and can be password protected.

From within an Ethernet LAN or over the Internet, the user simply types its IP address or an easy to remember name such as “Cleanroom 5” or “Midwest Server Room” in any Web Browser, and the iTHX serves a Web Page with the current readings.

The iTHX comes complete with one temperature/humidity probe, however users may purchase an additional probe for two channel monitoring and differential measurement.

Alarms and Email

If temperature or humidity exceed a set limit, the iTHX can trigger an alarm that can be sent by email to an Internet enabled pager or cell phone.

Customer Service

The NEWPORT iTHX comes complete with full documentation, and firmware. NEWPORT iServer products are designed and manufactured in Santa Ana, California. NEWPORT provides generous technical support.
**Sensor Specifications**

**Relative Humidity (RH)**
- Range: 10 to 90%
- Accuracy: ±2%
- Non-linearity: ±3%
- Response Time: ≤4 sec.
- Repeatability: ±0.1%
- Resolution: 0.03%

**Temperature (T)**
- Range: 0°C to 70°C (32°F to 158°F)
- Accuracy: ±0.5°C @ 25°C
- Response Time: ≤5 sec.
- Repeatability: ±0.1°C
- Resolution: 0.01°C

**Physical Dimensions**
- Wand Probe: 198.1mm Length x 19.1mm Diameter (7.8" x .75")

---

**Indicators (LEDs)**
- Power, Network Activity, Network Link, Serial Transmit and Receive
- Display: 16 Digits 6mm (.23") for iTHX-M

**Processor**
- Enhanced 8051, 22 MHz

**Memory**
- 512 Kbytes Flash, 16 Kbytes SRAM

**Management**
- Device configuration and monitoring through embedded WEB server

---

**iTHX-M with Flash memory card, display and back-up battery**

---

**iServer Specifications**

**Interfaces**
- Ethernet: 10Base-T (RJ45)
- Sensor: Digital 2-wire (DB-9)

**Supported Protocols**
- TCP/IP, UDP/IP, ARP, ICMP, DHCP, DNS, HTTP, and Telnet

---

**Indicators (LED’s)**
- Remote Access (Tunneling)
- Take Readings
- Update

**Remote IP Address:** Remote Port: Remote Access:
- Title:

**Remote Setup**

**Terminal Server**
- TCP/UDP: Server Type: Number of Sockets: Port:

---

**Power**
- Input: 9-12 VDC
- Consumption: 2 W max. (ac power adapter included)
- Battery: 9V, Alkaline for iTHX-M

**Software**
- Firmware upgradeable. Including an Excel program for automatic data logging within definable time intervals, compatible with all Windows operating systems.

**Environmental**
- Operating Temp: 0 to 70°C (32 to 158°F)
- Storage Temp: -40 to 125°C (-40 to 257°F)

---

**Embedded WEB Server**
- Serves WEB pages containing real-time data and live updated charts within definable time intervals.

---

**Device Setup**

**Title**
- Temperature 76.37 °F
- Humidity 59.66 %
- Dewpoint 59.99 °F

---

**Model No.**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITHX-W</td>
<td>iServer MicroServer™ for Temp + Humidity, with 8&quot; Wand Probe</td>
<td>295</td>
</tr>
<tr>
<td>ITHX-M</td>
<td>iServer MicroServer™ for Temp + Humidity, with 8&quot; Wand Probe, LED Display, 2M Flash Memory Card, and Backup Battery</td>
<td>395</td>
</tr>
</tbody>
</table>

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**Accessories**

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITHP-8W</td>
<td>Wand Probe 8&quot; (203mm), cable 6&quot; (152mm) with DB9 Connector</td>
<td>100</td>
</tr>
<tr>
<td>ITHP-2</td>
<td>Industrial Probe 2&quot; (51mm), cable 3ft (0.9m) with stripped wire ends (for DB9-ST)</td>
<td>115</td>
</tr>
<tr>
<td>ITHP-5</td>
<td>Industrial Probe 5&quot; (137mm), cable 20ft (6.1m) with stripped wire ends (for DB9-ST)</td>
<td>125</td>
</tr>
<tr>
<td>DB9-Y</td>
<td>DB9 “Y” Connector Adapter for 2 probes with DB9 Connector</td>
<td>25</td>
</tr>
<tr>
<td>DB9-ST</td>
<td>DB9 to Screw Terminal Connector Adapter for 2 probes with stripped wire ends</td>
<td>25</td>
</tr>
<tr>
<td>DB9-CA-3</td>
<td>Extension Cable, 3 ft (0.9m) with DB9 Connector</td>
<td>15</td>
</tr>
<tr>
<td>ITH-MC2</td>
<td>Memory Data Flash Card, 2M bit</td>
<td>10</td>
</tr>
<tr>
<td>ITH-MC8</td>
<td>Memory Data Flash Card, 8M bit</td>
<td>30</td>
</tr>
</tbody>
</table>

*Volume discounts are available*