# Infrared Temperature

## Model Number
- OXSL-101
- IR-USB
- UWIR-2-NEMA
- OXS3E Series
- OX-DT885SW
- HHM290
- OXS23E/S24E/S33E and OXS4E-LR
- OXSL450
- OXS61
- OXS62
- OXS40
- OXS432-LS

## Price
- $2900
- $175
- $285
- $295
- $279
- $245
- $625 - $1095
- $65
- $85
- $125
- $95
- $199

## Features
### Temperature Range
- -20 to 30°C (-4 to 86°F)
- -18 to 538°C (0 to 1000°F)
- -30 to 871°C (-22 to 1600°F)
- -50 to 87°C (-58 to 246°F)
- -20 to 1370°C (-4 to 2402°F)
- 18 to 248°C (0 to 450°F)
- -20 to 32°C (-4 to 90°F)
- -60 to 500°C (-76 to 932°F)
- -60 to 760°C (-76 to 1400°F)
- -20 to 500°C (-4 to 932°F)
- -60 to 860°C (-76 to 1580°F)

### Accuracy
- ±2% rdg or ±3°C
- ±2% rdg or ±2.5°C
- ±1% of rdg or 1°F
- ±1.5% of rdg or 3°C
- ±2% reading or 1.7°C
- ±1% of rdg or 2°F
- ±2% rdg or 2°C
- ±2% rdg or 2°C
- ±2% rdg or 2°C
- ±2% rdg or 2°C

### Repeatability
- ±1% rdg or ±1.7°C
- ±2% rdg or ±1.5°C
- ±1% rdg or ±1°F

### Emissivity
- 0.01 to 1.00
- 0.1 to 1.00
- 0.1 to 1.00
- 0.1 to 1.00
- 0.1 to 1.00
- 0.1 to 1.00
- 0.1 to 1.00
- 0.1 to 1.00
- 0.1 to 1.00

### Spectral Response
- 5 to 14 μ
- 5 to 14 μ
- 8 to 14 μ
- 8 to 14 μ
- 8 to 14 μ
- 8 to 14 μ
- 8 to 14 μ
- 8 to 14 μ
- 8 to 14 μ

### Response Time
- 3 frames per second
- 100 ms
- 100 ms
- 100 ms
- 100 ms
- 100 ms
- 100 ms
- 1 sec
- 1 sec

### Outputs
- Ethernet
- USB
- USB
- 1 mV/°C, RS232
- USB
- mV/°C
- USB
- 1 sec
- 1 sec

### Display
- Thermopile array
- PC
- PC
- Backlit LCD
- Backlit LCD
- Backlit LCD
- Backlit LCD
- Backlit LCD
- Backlit LCD
- Backlit LCD

### Resolution
- 2556 pixels
- 0.1°C
- 0.1°C
- 0.1°C
- 1°
- 1°
- 1°C or 1°F
- 1°C or 1°F
- 1°C or 1°C

### Power
- 9 to 30 Vdc
- USB port
- 3.6V lithium “C” cell
- 4 “AA” batteries or AC adapter
- 9V or AC adapter
- 4 “AA” batteries or AC adapter
- 9V
- 2 “AAA” batteries
- 2 “AAA” batteries
- 9V battery
- 2 “AAA” batteries

### Battery Life
- 1.5 years
- 1 sample per minute
- 240 hours
- lithium battery
- typical with no laser
- 60 hours
- alkaline, 10 days lithium
- 12 hours
- laser on
- 180 hours
- without laser
- 180 hours
- without laser
- 9 hours
- 140 hours, no laser or backlight

### Min. Spot Size vs Distance (FOV)**
- 0.4’’@ Din
- 6:1
- 0.35’’@ 1’’
- 30:1
- 0.5’’@ 0’’
- See specifications
- 6:1
- 10:1
- 12:1
- 14 mm (0.55”)
- 8:1, 10:1, 12:1
- 30:1

### Aiming
- Laser
- Laser
- Built-in switchable laser circle/dot sight
- Laser
- Built-in laser circle/dot
- Switchable laser circle/dot or sighting scope
- Laser dot or circle
- Laser Circle
- Laser Circle
- Laser
- Laser

### Alarms
- Two SPST
- Hi and low alarm standard
- Hi and low alarm standard
- Hi and low alarm standard
- Hi and low alarm standard

### Data Storage
- Yes
- Yes
- Yes
- Yes
- Yes

### Switchable “F”/°C
- Yes
- Yes
- Yes
- Yes
- Yes

### Tripod Mount
- Yes
- Yes
- Yes
- Yes
- Yes

### Other Features
- Thermal imager
- Free logging software
- Wireless transmitter
- Backlit LCD display audible buzzer RS232 free software
- Wireless transmission
- Multimeter thermometer backlit display
- Backlit LCD audible buzzer RS232 free software
- Circle/dot laser
- NIST certificate
- K/T/C input
- NIST cert 5 math modes
- Series with different features
- 4 math modes, white LCD light

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* Meters shown with these sensors are for reference only and not included with the basic unit.

** FOV = Field of View
## Selection Guide

### Model BB701 Hot/Cold Target Plate
- Temperature Range: 0 to 300°F, 2.5" Target Plate
- Emissivity: 0.95

### Model BB702 90 to 420°F, 2.5" Target Plate
- Temperature Range: 90 to 420°F, 2.5" Target Plate
- Emissivity: 0.95

### Model BB703 90 to 752°F, 1.125" Target Plate
- Temperature Range: 90 to 752°F, 1.125" Target Plate
- Emissivity: 0.95

### Model BB704 212 to 752°F, 4" Target Plate
- Temperature Range: 212 to 752°F, 4" Target Plate
- Emissivity: 0.95

### Model BB705 212 to 2190°F, 1.75" Cavity Cone
- Temperature Range: 212 to 2190°F, 1.75" Cavity Cone
- Emissivity: 0.99

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<table>
<thead>
<tr>
<th>Model</th>
<th>Number</th>
<th>Description</th>
<th>Price</th>
<th>Page</th>
<th>Temperature Range</th>
<th>Accuracy</th>
<th>Repeatability</th>
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<th>Alarms</th>
<th>Data Storage</th>
<th>Switchable °F/C</th>
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<th>Other Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB701</td>
<td>Hot/Cold</td>
<td>Target Plate</td>
<td>$259</td>
<td>J-36</td>
<td>-40 to 1000°F (-76 to 1832°F)</td>
<td>±1°C</td>
<td>±1°C</td>
<td>Adj. 0.1 to 1</td>
<td>8 to 14 μ</td>
<td>1 sec (90%)</td>
<td>RS232</td>
<td>Backlit LCD</td>
<td>0.1°C (0.1°F)</td>
<td>9V batteries</td>
<td>50 hrs</td>
<td>50:1</td>
<td>Laser Circle</td>
<td>Display flash/beep</td>
<td>500 points</td>
<td>°F/C switchable</td>
<td>Magnetic swivel mount</td>
<td>AVG, dif mode, software emissivity comp, audible assist, traceable certificate, cold temp model, sighting assist</td>
</tr>
<tr>
<td>BB702</td>
<td>90 to 420°F</td>
<td>Target Plate</td>
<td>$1425</td>
<td>J-37</td>
<td>300 to 1000°F (600 to 2000°F to 3000°F)</td>
<td>±1°C</td>
<td>±1°C</td>
<td>Automatic</td>
<td>5.5, 0.9, 2 color</td>
<td>250 msec</td>
<td>RS232</td>
<td>Backlit LCD</td>
<td>0.1°C, 1°F</td>
<td>9V, 110Vac adapter</td>
<td>Approx 5000 readings</td>
<td>20 mm (0.8&quot;)</td>
<td>Through lens</td>
<td>Display flash/beep</td>
<td>500 points</td>
<td>°F/C switchable</td>
<td>Tripod Mount</td>
<td>Optional software for PC, Scanlock, auto emissivity comp, audible assist, high accuracy, NIST traceable certificate, stand mount, general purpose, low temp model, Laser sighting</td>
</tr>
<tr>
<td>BB703</td>
<td>90 to 752°F</td>
<td>Target Plate</td>
<td>$425</td>
<td>J-39</td>
<td>-46 to 228°F (-50 to 550°F)</td>
<td>±1°C</td>
<td>±1°C</td>
<td>Automatic</td>
<td>2 to 20 μ</td>
<td>50 to 100 msec</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>0.1°C, 1°F</td>
<td>9V battery</td>
<td>Approx 5000 readings</td>
<td>6.4 mm (0.25&quot;)</td>
<td>Through lens</td>
<td>Visual</td>
<td>500 points</td>
<td>°F/C switchable</td>
<td>Magnetic swivel mount</td>
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<tr>
<td>BB704</td>
<td>212 to 752°F</td>
<td>Target Plate</td>
<td>$699</td>
<td>J-40</td>
<td>-45 to 871°F (-50 to 1600°F)</td>
<td>±1°C</td>
<td>±1°C</td>
<td>Automatic</td>
<td>2 to 20 μ</td>
<td>50 to 100 msec</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>1°C or 1°F</td>
<td>9V battery, alkaline battery</td>
<td>Approx 5000 readings</td>
<td>0.25&quot; when touching</td>
<td>Through lens</td>
<td>Visual</td>
<td>500 points</td>
<td>°F/C switchable</td>
<td>Magnetic swivel mount</td>
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<tr>
<td>BB705</td>
<td>212 to 2190°F</td>
<td>Target Plate</td>
<td>$495</td>
<td>J-41</td>
<td>-55 to 251°F (-67 to 482°F)</td>
<td>±1°C</td>
<td>±1°C</td>
<td>Automatic</td>
<td>2 to 20 μ</td>
<td>0.1 sec</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>0.1°C or 1°F</td>
<td>9V</td>
<td>Approx 5000 readings</td>
<td>6.4 mm (0.25&quot;)</td>
<td>Through lens</td>
<td>Visual or laser</td>
<td>500 points</td>
<td>°F/C switchable</td>
<td>Magnetic swivel mount</td>
</tr>
</tbody>
</table>

* Meters shown with these sensors are for reference only and not included with the basic unit.

** FOV = Field of View
<table>
<thead>
<tr>
<th>Model Number</th>
<th>O546</th>
<th>OSM101</th>
<th>O366</th>
<th>O36SM</th>
<th>O37</th>
<th>O38</th>
<th>O38000</th>
<th>O38000-K-1200</th>
<th>O3136</th>
<th>O137</th>
<th>O35</th>
<th>O100E</th>
<th>O35RS</th>
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<tbody>
<tr>
<td>Price</td>
<td>$105</td>
<td>$115</td>
<td>$255</td>
<td>$99</td>
<td>$569</td>
<td>$199</td>
<td>$1199</td>
<td>$1105</td>
<td>$359</td>
<td>$195</td>
<td>$265</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>-30 to 550°C (-22 to 1022°F)</td>
<td>-18 to 530°C (0 to 1000°F)</td>
<td>-18 to 260°C (0 to 500°F)</td>
<td>-45 to 2760°C (-50 to 5000°F)</td>
<td>0 to 250°C (-18 to 480°F)</td>
<td>-73 to 650°C (-100 to 1200°F)</td>
<td>-18 to 202°C (0 to 400°F)</td>
<td>-30 to 100°C (-22 to 102°F)</td>
<td>-18 to 538°C (0 to 1000°F)</td>
<td>0 to 500°C (0 to 952°F)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td>±2% rdg or 3°C (±2°F)</td>
<td>±2% rdg or 3°C (±2°F)</td>
<td>±2% range</td>
<td>±2% range</td>
<td>±2% range</td>
<td>±2% range</td>
<td>±2% range</td>
<td>±2% range</td>
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<td>±2% range</td>
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<tr>
<td>Repeatability</td>
<td>±1% rdg</td>
<td>±1% rdg</td>
<td>±1% rdg</td>
<td>±1% rdg</td>
<td>±1% rdg</td>
<td>±1% rdg</td>
<td>±1% rdg</td>
<td>±0.1°C</td>
<td>±1% rdg</td>
<td>±1% rdg</td>
<td>±1% rdg</td>
<td>±1% rdg</td>
<td></td>
</tr>
<tr>
<td>Emissivity</td>
<td>0.1 to 1.0 or 0.95</td>
<td>0.1 to 1.00</td>
<td>0.9</td>
<td>0.9</td>
<td>Adjustable</td>
<td>Auto comp. from 0.8 to 1.0</td>
<td>Auto comp. from 0.8 to 1.0</td>
<td>0.95 in 0.01 steps</td>
<td>0.90</td>
<td>0.1 to 1.0 in 0.01 steps</td>
<td>0.90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spectral Response</td>
<td>5 to 14 µ</td>
<td>6 to 14 microns</td>
<td>6.5 to 14 µ</td>
<td>2 to 20 microns</td>
<td>6 to 14 µ</td>
<td>6.5 to 14 µ</td>
<td>5 to 14 µ</td>
<td>5.5 to 20 µ</td>
<td>5 to 14 µ</td>
<td>3 to 20 microns</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response Time</td>
<td>0.25 sec</td>
<td>150 msec</td>
<td>150 msec</td>
<td>80 msec</td>
<td>80 msec</td>
<td>80 msec</td>
<td>150 msec</td>
<td>150 msec</td>
<td>150 msec</td>
<td>&lt;250 ms</td>
<td></td>
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</tr>
<tr>
<td>Display</td>
<td>3½” digit LCD</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>**</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Resolution</td>
<td>0.2°C/1°F</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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</tr>
<tr>
<td>Battery Life</td>
<td>90 hrs, typ laser off</td>
<td>1.6</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td></td>
</tr>
<tr>
<td>Min. Spot Size vs Distance (FOV)**</td>
<td>15 mm (0.59”), 10:1</td>
<td>60”</td>
<td>2:1</td>
<td>0.8” to 6”</td>
<td>60” FDV</td>
<td>60” FDV</td>
<td>6:1</td>
<td>3.1 or 20:1</td>
<td>6:1</td>
<td>3 mm (0.1”)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Alarms</td>
<td>Set, Hi, Lo, Beep</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<td></td>
</tr>
<tr>
<td>Data Storage</td>
<td>Max, Min</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
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<td></td>
</tr>
<tr>
<td>Switchable °F/°C</td>
<td>-</td>
<td>-</td>
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<td></td>
</tr>
<tr>
<td>Mounting</td>
<td>Mounting bracket or mounting ring</td>
<td>Mounting bracket or mounting ring</td>
<td>Mounting bracket</td>
<td>Mounting bracket</td>
<td>Mounting bracket</td>
<td>Mounting bracket</td>
<td>Mounting bracket</td>
<td>Mounting bracket</td>
<td>Mounting bracket</td>
<td>Mounting bracket</td>
<td>-</td>
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<td></td>
</tr>
<tr>
<td>Other Features</td>
<td>Pocket hook and magnet hanger</td>
<td>Handheld</td>
<td>Self-powered emissivity correction 0.8-1.0</td>
<td>Self-powered</td>
<td>Built-in air purge collar</td>
<td>Self-powered</td>
<td>Unique handheld surface probe</td>
<td>Hermetically sealed optics</td>
<td>NEMA 4</td>
<td>RS232</td>
<td>NEMA 4</td>
<td>RS232</td>
<td></td>
</tr>
</tbody>
</table>

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** = has this feature.
** FOV = Field of View

For Additional Infrared Thermocouple Selection See Chart on Page J-45
<table>
<thead>
<tr>
<th>Model No.</th>
<th>OS1550</th>
<th>OS550A, OS550-BB</th>
<th>OS555A</th>
<th>OS565</th>
<th>OS66</th>
<th>OS660, OS1700, OS1800</th>
<th>OS4000</th>
<th>iR2 Series</th>
<th>OS1592</th>
<th>Series 4121</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$690</td>
<td>$495</td>
<td>$800</td>
<td>$395 - $550</td>
<td>$995</td>
<td>$780</td>
<td>$1495</td>
<td>$2995</td>
<td>$2320</td>
<td>$2195</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>0 to 1370°C (32 to 2500°F)</td>
<td>-18 to 1370°C (0 to 2500°F)</td>
<td>638 to 2482°C (1000 to 4500°F)</td>
<td>-57 to 500°C (70 to 1000°F)</td>
<td>800 to 1500°C (1500 to 3000°F)</td>
<td>-45 to 2500°C (-50 to 4500°F)</td>
<td>100 to 1600°C (212 to 2912°F)</td>
<td>300 to 3000°C (572 to 5432°F)</td>
<td>260 to 2482°C (500 to 4500°F)</td>
<td>98 to 463°C (212 to 865°F)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±1% rdg</td>
<td>±1% rdg or ±3°F</td>
<td>±1% rdg or ±3°F</td>
<td>±1% rdg or ±3°F</td>
<td>±1% rdg or ±3°F</td>
<td>±0.75% FS</td>
<td>±1% rdg</td>
<td>±0.2% of full scale</td>
<td>±1% rdg</td>
<td>±0.75% of reading</td>
</tr>
<tr>
<td>Repeatability</td>
<td>±2°F (1°C)</td>
<td>±1% rdg or ±1 digit</td>
<td>±0.5% rdg or ±1 digit</td>
<td>±0.5% rdg or ±1 digit</td>
<td>±0.5% rdg or ±1 digit</td>
<td>±0.5% rdg</td>
<td>±0.2% of full scale</td>
<td>±0.2% of full scale</td>
<td>±1% rdg</td>
<td></td>
</tr>
<tr>
<td>Emissivity</td>
<td>0.05 to 1.0</td>
<td>0.10 to 0.99</td>
<td>0.10 to 1.0</td>
<td>0.1 to 0.99</td>
<td>0.1 to 0.99 in 0.01 steps</td>
<td>0.1 to 0.99 in 0.01 steps</td>
<td>0.1 to 0.99</td>
<td>0.1 to 1.0</td>
<td>0.05 to 0.99</td>
<td>2-color: N/A 0.1 to 1.0</td>
</tr>
<tr>
<td>Spectral Response</td>
<td>8 to 14 microns</td>
<td>8 to 14 µ</td>
<td>8 to 14 microns</td>
<td>0.85 to 0.95</td>
<td>0.8 to 14 microns</td>
<td>1.2 to 2.6 µ</td>
<td>0.85 to 1.15 µ</td>
<td>0.8 to 1.8 µ</td>
<td>0.8 to 1.8 µ</td>
<td>1.0 to 2.7 µ</td>
</tr>
<tr>
<td>Response Time</td>
<td>50 msec</td>
<td>250 msec</td>
<td>100 ms</td>
<td>300 msec</td>
<td>300 msec</td>
<td>0.2 to 5.0 sec adjustable</td>
<td>1 msec</td>
<td>10 msec (0 to 63%/final value)</td>
<td>25 msec</td>
<td>10 msec</td>
</tr>
<tr>
<td>Outputs</td>
<td>4 to 20 mA</td>
<td>J: K: 1 mV/V, 4-20, 0-20 mA</td>
<td>0 to 5 Vdc, mA, V</td>
<td>R, S, B: 1 mV/V, 4 to 20 mA</td>
<td>0 to 5 Vdc, mA</td>
<td>4 to 20 mA</td>
<td>1 mV/V</td>
<td>2 control, alarm, DC pulse, current, voltage</td>
<td>1 mV/V</td>
<td>4 to 20 mA 0 to 5 Vdc</td>
</tr>
<tr>
<td>Display</td>
<td>LCD</td>
<td>LCD</td>
<td>Backlit LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD (OS1800)</td>
<td>LCD</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Resolution</td>
<td>1°</td>
<td>1°</td>
<td>1%</td>
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</tr>
<tr>
<td>Power</td>
<td>18 to 40 Vdc</td>
<td>7 to 24 Vdc</td>
<td>8 to 24 Vdc</td>
<td>9 to 30 Vdc</td>
<td>9 to 30 Vdc</td>
<td>10 to 40 Vdc</td>
<td>15 to 24 Vdc</td>
<td>80 to 250 Vdc</td>
<td>18 to 38 Vdc</td>
<td>±15 Vdc</td>
</tr>
<tr>
<td>Min. Spot Size vs Distance (FOV)**</td>
<td>0.69&quot; @ 20&quot;</td>
<td>0.15&quot; @ 0.6&quot;</td>
<td>0.25&quot; @ 0.75&quot;</td>
<td>0.25&quot; @ 6&quot;</td>
<td>0.25&quot; @ 7&quot;</td>
<td>0.25&quot; @ 2.5&quot;</td>
<td>0.25&quot; @ 2.5&quot;</td>
<td>25:1 Adj. focus from 8&quot; to 14&quot;</td>
<td>0.25&quot; @ 6&quot;</td>
<td></td>
</tr>
<tr>
<td>Alarms</td>
<td>Visual/audible</td>
<td>Hi/Low</td>
<td>Hi/Low</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Switchable °C/F</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Mounting</td>
<td>Mounting bracket</td>
<td>Mounting bracket Din Rail optional</td>
<td>Mounting bracket</td>
<td>Mounting bracket</td>
<td>Mounting bracket</td>
<td>Mounting bracket</td>
<td>Mounting bracket panel mount</td>
<td>Mounting bracket</td>
<td>Mounting bracket</td>
<td></td>
</tr>
<tr>
<td>Other Features</td>
<td>Optional water cooled shell, 4-wire design</td>
<td>RS232 output, NEMA 4 data logging software</td>
<td>RS232, viewing window accessory</td>
<td>Air/water cooling, NEMA 4, 12 low cost</td>
<td>Peak hold Air purge collar Water cooling Adjustable response time</td>
<td>Relay contacts, RS232 output data logging software</td>
<td>Fast response controller, outputs, signal processing 2-color</td>
<td>NEMA-4 fiber optic backlit LCD</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Meters shown with these sensors are for reference only and not included with the basic unit.
** FOV = Field of View
More than 100,000 Products Available!

- **Temperature**

- **Flow and Level**
  Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Sh edding Flowmeters

- **pH and Conductivity**
  Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

- **Data Acquisition**

- **Pressure, Strain and Force**
  Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

- **Heaters**

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