STRAP-ON TEMPERATURE SENSOR

TSSO Series

The single point strap-on temperature sensor incorporates the following:

* One-piece precision machined aluminum heat sink
* A 254mm (10”) S/S pipe clamp is provided to secure the assembly to various sizes of pipe
* Mounting heat sink provide excellent heat transfer, fast response and are potted to resist moisture penetration.

PRODUCT HIGHLIGHTS

* Compact form factor enclosure with soft close cover
* IP 65 Enclosure
* Adjustable angle for sensor for easy mounting
* Fast response time
* Slotted mounting holes angled for ease of field installation
* Custom branding available

ENGINEERING SPEC’S

* Shall be IP65 (NEMA 4X) with a UL94-V0 rated enclosure
* Mounting clamps shall be a one-piece quick release for ease of field installation
* External mounting tabs must be slotted & tapered away from enclosure to ease field installation
* Enclosure shall be complete with neoprene gasket for duct to enclosure seal
* Enclosure shall be complete with threaded (1/2 NPT and/or M16) conduit connection
* Cover must be hinged and securely attached in the open position
* Heatsink/Probe shall one-piece machined AL 6061 full potted
* Sensing range must be -20 to 105°C (-4 to 221°F)
* Cover must contain security screw as extra protection from opening
* Product shall be CE approved

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| SPECIFICATIONS |  |
| SENSOR TYPE | **Thermistor or RTD**   * 100 Ω Platinum, IEC 751, 385 Alpha, thin film * 1801 Ω NTC Thermistor, ±0.2°C * 3000 Ω NTC Thermistor, ±0.2°C * 10,000 Ω Type 3, NTC Thermistor, ±0.2°C * 2.252K Ω NTC Thermistor, ±0.2°C * 1000 Ω Platinum, IEC 751, 385 Alpha, thin film * 1000 Ω Nickel, Class B, DIN 43760 * 10,000 Ω Type 3, NTC Thermistor, ±0.2°C c/w 11K shunt resistor * 20,000 Ω NTC Thermistor, ±0.2°C * 10,000 Ω Type 2, NTC Thermistor, ±0.2°C * 10,000 Ω, 25°C, ±1%, B = 3435 ±1% (25/85) |
| SENSOR ACCURACY | **Thermistors:** ±0.2°C (±0.36°F) @ 25°C (77°F)  **Platinum RTD’s:** ±0.3°C (±0.54°F) @ 0°C (32°F)  **Nickel RTD’s:** ±0.4°C (±0.72°F) @ 0°C (32°F) |
| PROBE SENSING RANGE | -20 to 105°C (-4 to 221°F) |
| AMBIENT OPERATING RANGE | -10 to 50°C (-14 to 122°F), 5 to 95 %RH non-condensing |
| WIRE MATERIAL | PVC insulated, parallel bonded, 22 AWG |
| PROBE MATERIAL | Machined Aluminum heat sink |
| PROBE SIZE | 38.1mm x 12.7mm (1.5” x 0.5”) |
| ENCLOSURE | **A:** ABS, UL94-V0, IP65 (NEMA 4X)  **C:** same as A, with a terminal block  **E:** Same as C, with thread adapter and cable gland fitting |
| TERMINATION | **A:** Pigtail, 2 or 3 wire  **C & E:** Terminal block, 2 or 3 wire |
| COUNTRY OF ORIGIN | Canada |