



Certificate: 2226439

Master Contract: 157800

Project: 80189877

Date Issued: 2024-03-21

aaaa = Model designation (1286 = 400 and 1288 = 600)

b = Sensor/probe type (1 = RTD and 2 = Thermocouple)

ccc = Sequential numbering (determines build type - RTD type, thermocouple type, single or dual sensors and length of probe.)

Notes:

- *A seal must be installed within 18" of the enclosure for Division 1 installations but is not required for Division 2.*
- *Models 400 & 600: Sensor must be installed into either a thermowell or a port machined into a solid metal piece with a 1/2-14 NPT mounting connection made per ANSI/ASME B1.20.1 and gauged to +1/2 to +2 turns from flush with end of start thread in accordance with CSA Std C22.2 0.5 and UL Std 1203, A 36" maximum bore depth, a 0.104" minimum wall, and a Ø0.302" maximum bore*
- *Suitability of the sensor for the intended application and final installation shall be as required by CEC/NEC. Compliance shall be verified by local inspection authorities.*

Class I, Division 2, Groups B, C, D T3; Class II, Division 2, Groups F, G; Class III

Models 400, 500, & 600 Temperature Sensors/Probes either RTD or Thermocouple.

Model(s)	Max. Allowable Working Pressure	Ambient Temp. Range	Temperature Code	Enclosure Type
400, 500, 600	689476 Pa	-40°C to +100°C	T3	Type 4/IP65

Model Codes:

10-aaaa-b-ccc-dd

aaaa = Model designation (1286 = 400, 1287 = 500 and 1288 = 600)

b = Sensor/probe type (1 = RTD and 2 = Thermocouple)

ccc = Sequential numbering (determines build type - RTD type, thermocouple type and length of probe.)

dd = Viton tubing length (model 500 only)

Notes:

1. *Models 400 & 600: Sensor must be installed into either a thermowell or a port machined into a solid metal piece with a 1/2-14 NPT mounting connection made per ANSI/ASME B1.20.1 and gauged to +1/2 to +2 turns from flush with end of start thread in accordance with CSA Std C22.2 0.5 and UL Std 1203, A 36" maximum bore depth, a 0.104" minimum wall, and a Ø0.302" maximum bore.*
2. *Suitability of the sensor for the intended application and final installation shall be as required by CEC/NEC. Compliance shall be verified by local inspection authorities.*

Class I, Division 1, Groups B, C, D T3; Class II, Division 1, Groups E, F, G; Class III

Model 500 Temperature Sensor/Probe, Intrinsically safe when installed per Conax control drawing 66-0002.



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Model(s)	Max. Allowable Working Pressure	Ambient Temp. Range	Temperature Code	Enclosure Type
500	689476 Pa	-40°C to +100°C	T3	Type 4/IP65

Entity Parameters:

$V_{max} = 10.5V$

$I_{max} = 800 \text{ mA}$

$P_{max} = 1.2W$

Model Code:

10-aaaa-b-ccc-dd

aaaa = Model designation (1287 = 500)

b = Sensor/probe type (1 = RTD and 2 = Thermocouple)

ccc = Sequential numbering (determines build type - RTD type, thermocouple type and length of probe.)

dd = Viton tubing length

Notes:

1. *Must be installed per Conax control drawing 66-0002.*
2. *Suitability of the sensor for the intended application and final installation shall be as required by CEC/NEC. Compliance shall be verified by local inspection authorities.*

APPLICABLE REQUIREMENTS

CSA C22.2 No. 30-M1986 (Third Edition)(R2007) - Explosion-Proof Enclosures for Use in Class I Hazardous Locations Industrial Products - Third Edition; General Instruction No 1-2

CSA C22.2 NO. 213-M1987 - Non-incendive electrical equipment for use in class I, division 2 hazardous locations

CAN/CSA C22.2 NO. 157-M92 - Intrinsically safe and non-incendive equipment or use in hazardous locations; General Instruction No. 1: June 1992; Update No. 2: June 2003

CSA C22.2 No. 25-1966(R2009) - Enclosures for Use in Class II Groups E, F, and G Hazardous Locations - Incorporating General Instruction No 1: 9/1966

CSA C22.2 No. 142-M1987 (Third Edition)(R2009) - Process Control Equipment Industrial Products - Third Edition; Incorporating General Instruction No 1: 5/1987; No 2: 6/1987, No 3: 6/1988, No 4: 2/1989, No 5: 9/1990

UL 508 (Seventeenth Edition; Reprint with Revisions Through and Including September 19, 2008) - UL Standard for Safety Industrial Control Equipment

UL 913(Seventh Edition; Reprint with revisions through and including August 12, 2008) - UL Standard for Safety Intrinsically Safe



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Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations

UL 1203 (Fourth Edition; Reprint with Revisions through and Including October 28, 2009) - UL Standard for Safety Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations

ANSI/ISA 12.12.01 : 2007 - Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

UL 50E (Third Edition) - UL Standard for Safety Enclosures for Electrical Equipment, Environmental Considerations

CSA C22.2 No. 94.2:20 (Third Edition) - Enclosures for electrical equipment, environmental considerations



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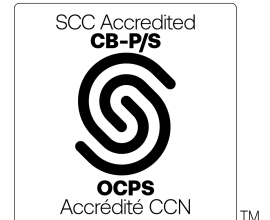
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Notes:

Products certified under Class(es) C225802, C225804 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80189877	2024-03-21	Update to report 2226439 to replace the old potting compound (Dow Corning 3-6751, old drawing 47-0046) with the new Dowsil TC-6020 thermally conductive encapsulant (new drawing 47-0181). Also, clerical update to drawings 49-0062, 10-1286, 10-1287, and 10-1288 and nameplate drawing ((49-0062) updated to include French translation of warning .
2576942	2012-12-18	Update to report 2226439 to correct document revisions per FIR NY170.
2312987	2010-07-16	Update to report 2226439 to add additional description information to many of the components (changed the drawings numbers to part numbers) and to include drawing revisions. Viton "B" tubing was added for ease of purchasing.
2226439	2009-12-25	Original Certification of Models 400, 500 and 600 Series Temperature Sensors for use in hazardous locations.