



# ATEX-Approved Assemblies

## Intrinsically-Safe Temperature Transmitter & Sensors

### Features

- Integral temperature transmitter
- Spring-loaded sensor design
- Suitable for all types of thermowells
- RTD's or Thermocouples
- Aluminum enclosure
- MgO sensor construction

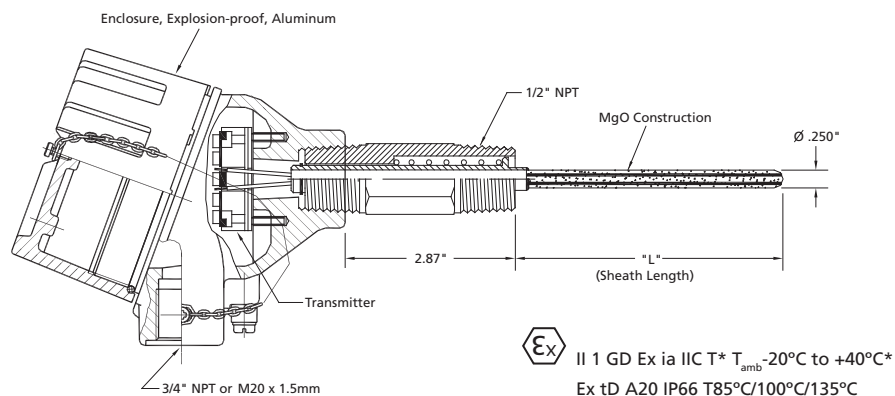
Ultra Electronics, Nuclear Sensors & Process Instrumentation manufactures temperature sensor assemblies suitable for hazardous area locations that meet EU ATEX Directive 94/9/EC.

The intrinsically-safe certification covers our temperature transmitter, spring-loaded sensor and connection head assembly. The assembly is suitable for all types of thermowells. Either RTD's or thermocouples can be specified.

Ultra manufactures temperature sensors for critical applications in the nuclear power, aerospace, petrochemical, pharmaceutical and OEM markets.

### ATEX Directive

- Ex ia Intrinsically-safe
- Equipment Group II
- Suitable for Gas Zone 0 and Dust Zone 20
- Gas Group IIC – Acetylene & Hydrogen
- T4 - T6 Temperature Classification
- Type Approval – Independent of thermowell or protection tube



Model	Description
305 Ex ia	ATEX-Approved, Intrinsically-Safe Temperature Sensor Assembly
<b>Code</b>	<b>RTD/Thermocouple Type</b>
01B	100Ω Platinum, α = 0.00385 DIN RTD
01A	100Ω Platinum, α = 0.003902 RTD
J_	Type J Thermocouple (Specify <u>G</u> for grounded or <u>U</u> for ungrounded junction)
K_	Type K Thermocouple (Specify <u>G</u> for grounded or <u>U</u> for ungrounded junction)
T_	Type T Thermocouple (Specify <u>G</u> for grounded or <u>U</u> for ungrounded junction)
E_	Type E Thermocouple (Specify <u>G</u> for grounded or <u>U</u> for ungrounded junction)
<b>Code</b>	<b>Construction</b>
D	MgO Construction, Stainless Steel Sheath
B	MgO Construction, Inconel Sheath
<b>Code</b>	<b>Number of Leadwires</b>
2	Single Thermocouple
3	3-wire RTD
4	4-wire RTD or Dual Thermocouple
6	Dual, 3-wire RTD
<b>Code</b>	<b>Sheath Diameter</b>
C	0.250"
<b>Code</b>	<b>Sheath Length</b>
xxx.x	Specify in inches
<b>Code</b>	<b>Leadwire Length</b>
Z006	6" of Teflon-insulated leadwire
<b>Code</b>	<b>Enclosure Electrical Connection</b>
3/4"	3/4" NPT Conduit Entry
M20	M20 Conduit Entry
Model	Description
7H_	PC-programmable, Temperature Transmitter – Complete code by referring to <i>7600H Specifications</i>
9H_	HART® Temperature Transmitter – Complete code by referring to <i>9100H Specifications</i>

Thermowells may be selected by using our catalog specification sheets.



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