



Special Features

- Mineral insulated cable.
- Spring loaded design for positive contact with thermowell
- Available in various connections & sheath diameters
- Enclosures (Head)
 - Weatherproof IP - 67 & IP - 68
 - Flameproof Gr. IIA, IIB
 - Explosion proof IIA, IIB, IIC
- Transmitter output 4 - 20 mA (Optional)
- Reference Standard : IEC - 751 / DIN 43760

Application

- Such design is generally used in all industries, machinery manufactures, bearing temp. measurement etc. where space is limited.



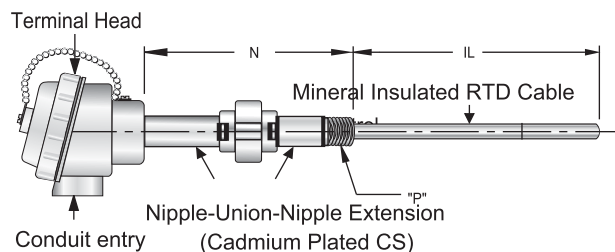
ATEX II 2G
Ex db eb IIC T6.....T1 Gb (Tamb = -20 °C ≤ Ta ≤ +60 °C)

Specifications

Standard Version

No of element	:	Simplex
Element type	:	Pt - 100
Range	:	-70 till 500°C & -20 till 440°C for ATEX IECEx
Accuracy	:	Class 'B' tolerance as per IEC - 751 / DIN 43760
Wire configuration	:	3 Wire system
Sheath diameter	:	6.0 mm
Sheath material	:	SS 316
Terminal head type	:	Screwed type, weatherproof, IP-65 in Die Cast Aluminum
No. of conduit entry	:	One
Cable gland	:	3/4" ET, Nickel plated brass, single compression
Head extension type	:	Head with nipple union nipple extension
Immersion length "IL"mm	:	150 mm.
Process conn. "P"	:	½" BSP (M), SS 316
Tag plate	:	SS Tag plate

Dimensional Details



Nipple - Union - Nipple Connection

Notes : • Drawings are not to scale. • All Dimensions are in mm.

How To Order	Example	How To Order	Example
Basic Model	R02	Head Extension Type	
Optional Extras		E Head with nipple extension	
No of Element		U Head with nipple union extension	X
1 Simplex (Standard)		N Head with nipple union nipple extension	OR
2 Duplex	X	N1 Nipple Union Nipple (N-U-N), 100 mm, SS 316 (Only for ATEX, IECEx)	XX
Elements Type		N2 Nipple Union Nipple (N-U-N), 150 mm, SS 316 (Only for ATEX, IECEx)	
P1 Pt - 100 (Standard)		AC Adjustable threaded connection (Only for ATEX, IECEx)	
P2 Pt - 500	XX	Immersion Length / Element Length	
P3 Pt - 1000		IL - Specify in mm.	150mm
Range		Process conn. "P"	
C -20 till 440°C D -70 till 500°C	X	4NM ½"NPT (M)	
Accuracy		5NM ¾" NPT (M)	
A Class 'A' as per IEC 60751		4NF ½"NPT (F)	
B Class 'B'	X	4BM ½"BSP (M) (Standard)	XXX
Wire Configuration		4BF ½"BSP (F)	
2 2 Wire system 3 3 Wire system (Standard)	X	5NF ¾" NPT (F)	
4 4 Wire system		5BM ¾" BSP (M)	
Sheath Diameter		5BF ¾" BSP (F)	
3 3.0 mm* 7 6.35 mm		Other Options	
5 4.5 mm 8 8.0 mm	X	13 Head mounted Temperature transmitter(4-20 mA)	
6 6.0 mm (Standard)		14 SS Base plate suitable for temperature transmitter	
<small>* For 3mm Sheath Dia Duplex can not be offered Up to 10mm OD MI cable and for above it protecting tube will be provided.</small>		21 Plug for conduit entry in carbon steel	
Sheath Material		22 Plug for conduit entry in SS 304	
1 SS 316 (Standard) 2 SS 316L	X	23 Plug for conduit entry in SS 316	
Terminal Head Type		32 S. C. cable gland in Nickel plated Brass - WP	
F Screwed type, Flameproof, IP-67, Gr. IIA IIB in Die Cast Aluminum		33 D. C. cable gland in Nickel plated Brass - WP	
E Screwed type, Explosion proof, IP-67, Gr. IIC in Die Cast Aluminum		34 S. C. cable gland in SS 304 - WP	
H Hinged type, Weatherproof, IP-67 in Die Cast Aluminum		35 D. C. cable gland in SS 304 - WP	
B Weatherproof Head, IP-67 in Die-cast Aluminum	X	36 S. C. cable gland in SS 316 - WP	
A Screwed type, weatherproof, IP-65 in Die Cast Aluminum	OR	37 D. C. cable gland in SS 316 - WP	
C Screwed Type, Weatherproof, IP-68 in Die Cast Aluminum	XX	39 D. C. cable gland in Nickel plated Brass - FLP	
3 Terminal head in SS 304 - WP, IP-67		41 D. C. cable gland in SS 304 - FLP	
4 Terminal head in SS 316 - WP, IP-67		43 D. C. cable gland in SS 316 - FLP	
D ATEX IIC, single entry, SS 304		45 D. C. cable gland in Nickel plated brass-Ex proof	
E ATEX IIC, single entry, SS 316		46 D. C. cable gland in SS304-Ex proof	
F ATEX IIC, single entry, Die Cast Aluminium		47 D. C. cable gland in SS316-Ex proof	
E1 Screwed type Explosion proof, IP-68, Gr. IIC (ATEX, IECEx) Die Cast Aluminium, 1/2" NPT(F) threads		48 FLP / Ex proof plug in SS 304	
E2 Screwed type Explosion proof, IP-68, Gr. IIC (ATEX, IECEx) SS 316, 1/2" NPT(F) threads		49 FLP / Ex proof plug in SS 316	
E3 Screwed type Explosion proof, IP-68, Gr. IIC (ATEX, IECEx) SS 304, 1/2" NPT(F) threads		50 FLP / Ex proof plug in Nickel plated Brass	
<small>* For other option contact factory</small>		51 Terminal block removable fitted with screw	
No of Conduit Entry / Entries		EC Head with nipple extension 50 mm in CS	
1 One entry (Standard) 2 Double entry	X	E4 Head with nipple extension 50 mm in SS 304	
Cable Gland		E6 Head with nipple extension 50 mm in SS 316	
A ¾" ET (Standard) 4NF 1/2" NPT(F)	X	UC Head with nipple union extension 100 mm in CS	
C ¾" NPT(F) 4MM M20 x 1.5 (M)	OR	U4 Head with nipple union extension 100 mm in SS 304	
	XXX	U6 Head with nipple union extension 100 mm in SS 316	
		NC Head with nipple union nipple extension 100 mm in CS	
		N4 Head with nipple union nipple extension 100 mm in SS 304	
		N6 Head with nipple union nipple extension 100 mm in SS 316	
		PC Head with nipple union nipple extension 150 mm in CS	
		A4 Ex certified plug in SS 304	
		A5 Ex certified plug in SS 316	
		A6 ATEX IIC plug in Nickel plated Brass	
		A13 Head mounted ATEX, IECEx Temp. Transmitter	
		A14 SS Base plate suitable for ATEX, IECEx Temp. Transmitter	
		P4 Head with nipple union nipple extension 150 mm in SS 304	
		P6 Head with nipple union nipple extension 150 mm in SS 316	
		A1 Double compression cable gland in SS 304 - ATEX, IECEx	
		A2 Double compression cable gland in SS 316 - ATEX, IECEx	
		A3 Double compression cable gland in Nickel plated Brass - ATEX, IECEx	
		AC Adjustable threaded connection SX SS tag plate	
		PW Calibration certificate	

Note :

- When selecting option "PW", please also specify temp. Points at which calibration is to be carried out .
- Explanations of Abbreviations used:

SC = Single Compression SS = Stainless Steel DC = Double Compression FLP = Flameproof WP = Weatherproof

3. ATEX IIC Exd & Exe certificate for RTD is valid with Thermowell only.
4. ATEX, IECEx cable gland will be provided with ATEX, IECEx certified equipment manufacturer.

Ordering Example : R02 . X . XX . X . X . X . X . X . X OR XX . X . X OR XXX . X OR XX . 150 mm . XXX . XX OR XXX

Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing . Modifications may take place and materials specified may be replaced by others without prior notice.