



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

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

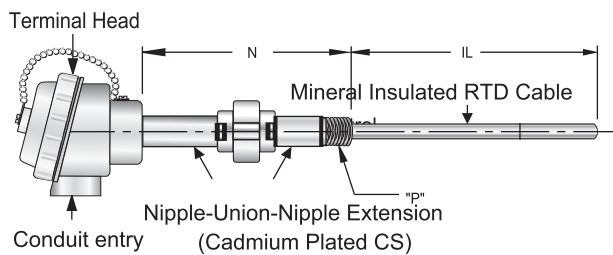
- Such design is generally used in all industries, machinery manufactures, bearing temp. measurement etc. where space is limited.

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	X OR XX
No of Element		U Head with nipple union extension	
1 Simplex (Standard)	X	N Head with nipple union nipple extension	
2 Duplex		N1 Nipple Union Nipple (N-U-N), 100 mm, SS 316 (Only for ATEX, IECEx)	
Elements Type		N2 Nipple Union Nipple (N-U-N), 150 mm, SS 316 (Only for ATEX, IECEx)	150mm
P1 Pt - 100 (Standard)	XX	AC Adjustable threaded connection (Only for ATEX, IECEx)	
P2 Pt - 500		Immersion Length / Element Length	
P3 Pt - 1000		IL - Specify in mm.	
Range		Process conn. "P"	
C -20 till 440°C D -70 till 500°C	X	4NM ½"NPT (M)	XXX
Accuracy		5NM ¾" NPT (M)	
A Class 'A' as per IEC 60751	X	4NF ½"NPT (F)	
B Class 'B'		5NF ¾" NPT (F)	
Wire Configuration		4BM ½"BSP (M) (Standard)	XXX
2 2 Wire system 3 3 Wire system (Standard)	X	5BM ¾" BSP (M)	
4 4 Wire system		4BF ½"BSP (F)	
Sheath Diameter		5BF ¾" BSP (F)	
3 3.0 mm* 7 6.35 mm	X	Other Options	
5 4.5 mm 8 8.0 mm		13 Head mounted Temperature transmitter(4-20 mA)	XX OR XXX
6 6.0 mm (Standard)		14 SS Base plate suitable for temperature transmitter	
* For 3mm Sheath Dia Duplex can not be offered Up to 10mm OD MI cable and for above it protecting tube will be provided.		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	XX OR XXX
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	X OR XX	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		36 S. C. cable gland in SS 316 - WP	XX OR XXX
A Screwed type, weatherproof, IP-65 in Die Cast Aluminum	X OR XX	37 D. C. cable gland in SS 316 - WP	
C Screwed Type, Weatherproof, IP-68 in Die Cast Aluminum		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	X OR XX	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	XX OR XXX
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	X OR XX	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	XX OR XXX
* For other option contact factory		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	XX OR XXX
A ¾" ET (Standard) 4NF 1/2" NPT(F)	X OR XXX	UC Head with nipple union extension 100 mm in CS	
C ¾" NPT(F) 4MM M20 x 1.5 (M)		U4 Head with nipple union extension 100 mm in SS 304	
		U6 Head with nipple union extension 100 mm in SS 316	
		NC Head with nipple union nipple extension 100 mm in CS	XX OR XXX
		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	
		P4 Head with nipple union nipple extension 150 mm in SS 304	XX OR XXX
		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	XX OR XXX
		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	XX OR XXX
		A14 SS Base plate suitable for ATEX, IECEx Temp. Transmitter	
		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 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.