



ATEX Thermometric Complex

Thermocouple Model ASTC-G-Ex d



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High Temperature Thermocouple

Type B, R, S, K, J, N. Other types upon request

Tolerance Class 1 or 2 according to CEI EN60584-1, Standard or Special according to ASTM E230

Hot joint: insulated

Simple insulation by two-bores/four-bores ceramic or thermocouple insert in Oxide mineral (MgO)

Single or double ceramic protection

Ceramic sheath material: C610, C799

Ceramic sheath diameter from 6 to 20 mm

Sleeve material: Stainless steel 304, 321, 310, 316, 446, Inconel600

Sleeve length upon request

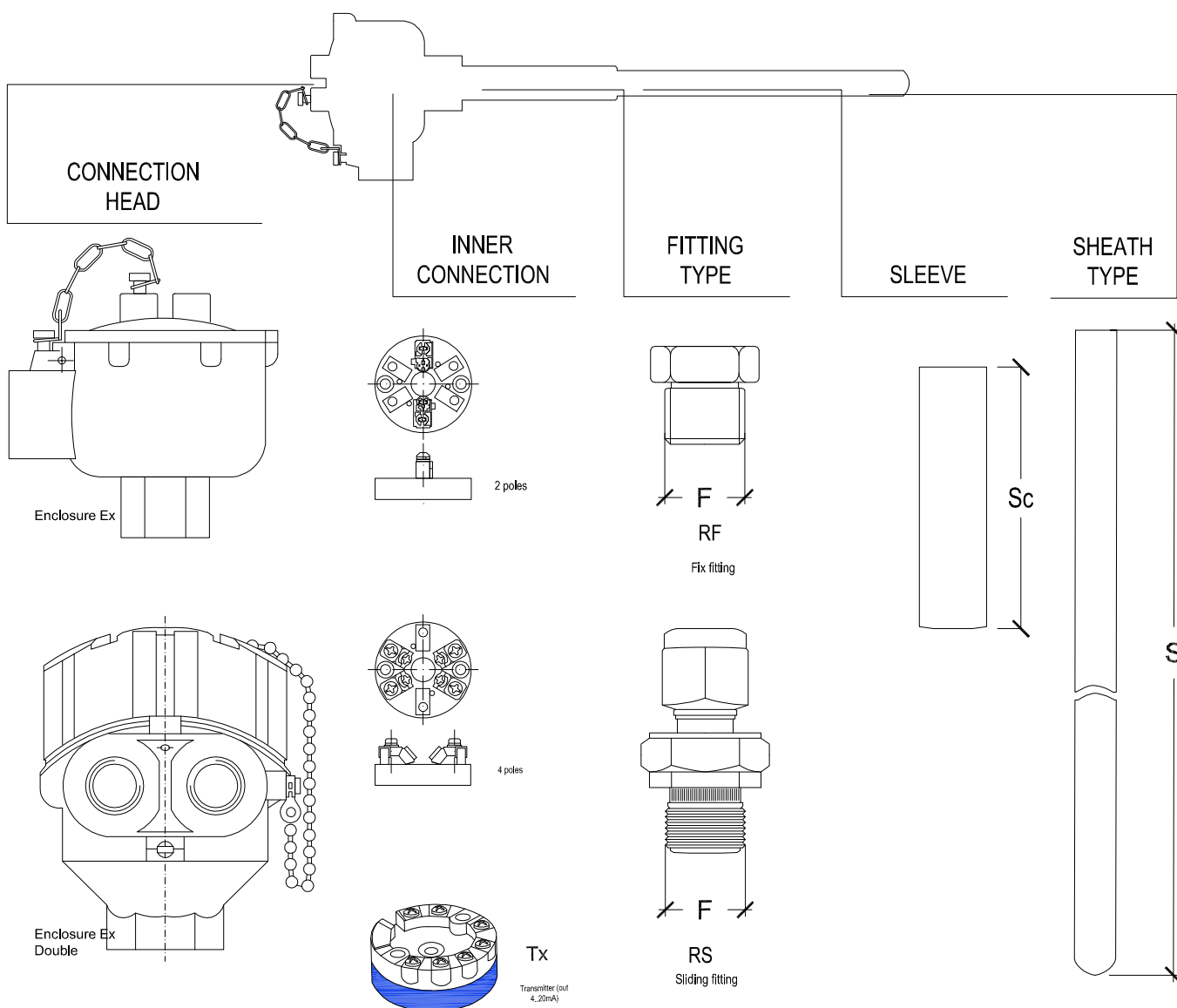
Aluminum head connection Ex d IP65 [Storage temperature from -55 °C to +60 °C]

Inner connection with ceramic terminal block or temperature transmitter analogue output 4..20 mA (HART protocol upon request)

Single or double electrical output

Fix or sliding compression fittings

The ATEX thermometric complex will be compliance with the essential health and safety set out in Annex II of Directive 2014/34/UE (ATEX) which has been subjected to a conformity assessment procedure for the categories 1/2GD and 2GD.



NUMBER OF COUPLE	
Single Thermocouple 1xTC	1
Double Thermocouple 2xTC	2

MODEL	
Thermocouple type K	K
Thermocouple type J	J
Thermocouple type T	T
Thermocouple type N	N
Thermocouple type E	E
Thermocouple type R	R
Thermocouple type S	S
Thermocouple type B	B
Other types upon request	A

ELEMENT	
Insulated joint	a

CERAMIC SHEATH DIAMETER	
Ø mm 6	6c
Ø mm 8	8c
Ø mm 10	10c
Ø mm 12	12c
Ø mm 15	15c
Ø mm 20	20c
Other diameter upon request	A

SLEEVE DIAMETER	
Ø mm 10	10
Ø mm 12	12
Ø mm 14	14
Ø mm 16	16
Ø mm 21,3	21
Ø mm 26,9	26
Other diameter upon request	A

SLEEVE MATERIAL	
AISI304	a04
AISI321	a21
AISI316	a16
AISI310	a10
INCONEL 600	i
AISI446	a46
Other types upon request	A

TOLERANCE	
Class 1, CEI EN60584-1	1
Class 2, CEI EN60584-1	2
Class Special, ASTM E230	A
Class Standard, ASTM E230	B

HEAD CONNECTION	
Enclosure Ex d IP65 N1/2 N1/2	Dx
Enclosure Ex d IP65 G1/2 G1/2	DGx
Enclosure Ex d IP65 N1/2 N1/2, double electrical output	D2x
Enclosure Ex d IP65 G1/2 G1/2, double electrical output	D2Gx

INNER CONNECTION	
2 poles	2
4 poles	4
Standard temperature transmitter (out 4..20mA)	T
ATEX Temperature Transmitter Ex ia (out 4..20mA)	Tx
Standard Temperature Transmitter HART (out 4..20mA)	TH
ATEX Temperature Transmitter HART Ex ia (out 4..20mA)	TxH

CERAMIC SHEATH LENGTH (Sg)	
from mm 50	

SLEEVE LENGTH (Sc)	
from mm 50	

FITTING TYPE	
Fix fitting*	Rf
Sliding compression fitting	Rs

FITTING THREAD	
3/8" BSPP Male	3/8G
1/2" BSPP Male	1/2G
3/4" BSPP Male	3/4G
1/2" NPT Male	1/2N
1" NPT Male	1N
Other types upon request	A



(*) If a fix fitting is required, indicate whether the length includes the thread or not

