

Specifications for the Ex temperature assemblies



Connection head:
BUZ-T
BUZ-H
BUZ-HK
AXD
SXD

Sensor wire connection:
1x Pt100; 2-, 3- or 4-wire
2x Pt100; 2-, 3- or 4-wire
1x type J, K
2x type J, K

Insert/class:
Cl. B, A, 1/3 DIN B TF
Cl. A, 1/10 DIN B WW
Cl. A vibration-proof
Cl. 1 for thermocouple

Transmitters:
TT 10, 30, 50, 51, 60 C
TT 30, 31, 51 R

ATEX II 1G Ex ia IIC T6 Ga
TR/TC-100
TRA/TCA-P10, -S11, -S12, -F13
TRA/TCA-P14, -T30, -TF31
TRA/TCA-TS32, -TF33, -S34
TRA/TCA-TS35, -TS36, -TS37
TRA/TCA-S50, -TS52, -TS53
TRA/TCA-TS54, -TF55, -TF56
TRA/TCA-TF57, -TW58, -TW59
TRA/TCA-P40, -S41, -F42

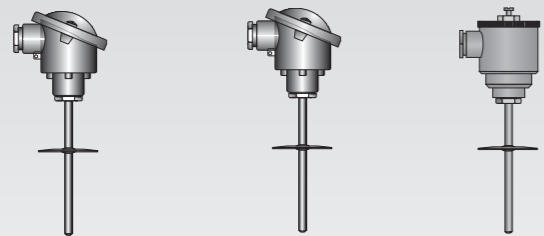
ATEX II 1/2 G Ex ia IIC T6 Ga/Gb
TRA/TCA-S11, -S12, -F13, -T30
TRA/TCA-TF31, -TS32, -TF33
TRA/TCA-TS35, -TS36, -TS37, -TS52
TRA/TCA-TS53, -TS54, -TF55, -TF56
TRA/TCA-TF57, -TW58, -TW59
TRA/TCA-S41, -F42

ATEX II 1D Ex ia IIIC T140°C Da IP65
TRA/TCA-P10, -S11, -S12, -F13
TRA/TCA-T30, -TF31
TRA/TCA-TS32, -TF33
TRA/TCA-TS35, -TS36, -TS37
TRA/TCA-TS52, -TS53
TRA/TCA-TS54, -TF55, -TF56
TRA/TCA-TF57, -TW58, -TW59
TRA/TCA-P40, -S41, -F42
TRA/TCA-S34, -S50¹⁾

ATEX II 1D Ex ia IIIC T175°C Da IP65
TRA/TCA-P14

¹⁾ only together with a thermowell

VTH1/VGP2 Hygienic temperature assemblies



TRA-H10

TRA-H20

TRA-H30



TTP 200

TTP 300

TTP 400

Configure it
Online configuration tool

Online configuration tool enables you to configure any KROHNE transmitter to handle your application in a few simple steps.



www.krohne-direct.com

VTS9 Measuring inserts

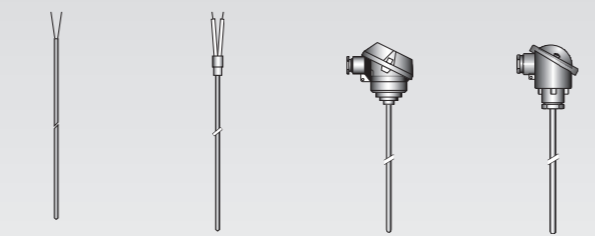


TR/TC-100

TR/TC-100

TR/TC-100

VTC2 Mineral insulated thermocouples



TCA-M10

TCA-M20

TCA-M30

TCA-M40

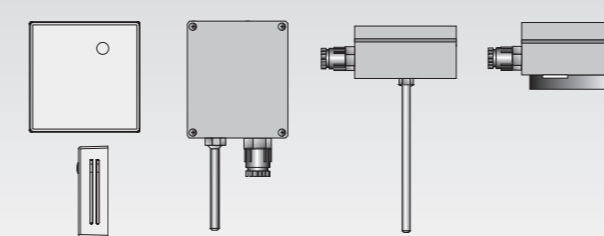


TCA-M50

TCA-M60

TCA-M70

VTE1 HVAC temperature sensors



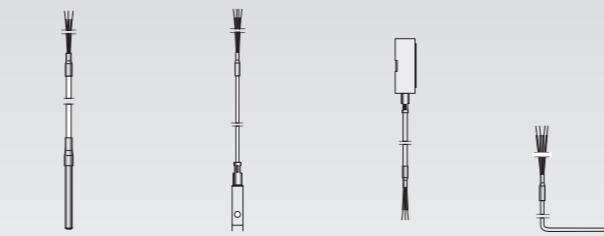
TRA-V10

TRA-V20

TRA-V30

TRA-V40

VTE2 Cable sensors



TRA-W10

TRA-W20

TRA-W30

TRA-W40



TRA-W50

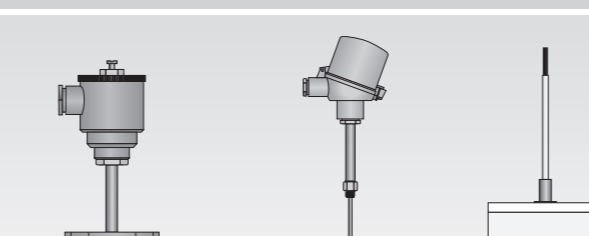
TRA-W60

TRA-W70

TRA-W80

TRA-W90

VTE3 Temperature assemblies for advanced requirements



TRA-G10

TRA-G20

TRA-G30

KROHNE Academy
Web Based Trainings for the process industry

Free of charge and commercial-free online courses about measurement principles, sizing, advantages and limits of operation, applications and industries.



Register for free:
academy-online.krohne.com



ETA Process Instrumentation

www.etapii.com
sales@etapii.com
tel 978.532.1330

New England

Martech Controls

www.martechcontrols.com
sales@martechcontrols.com
tel: 315.876.9120

Upstate New York



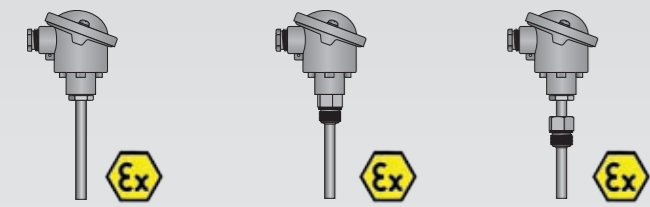
► achieve more

OPTITEMP portfolio
for the temperature measurement

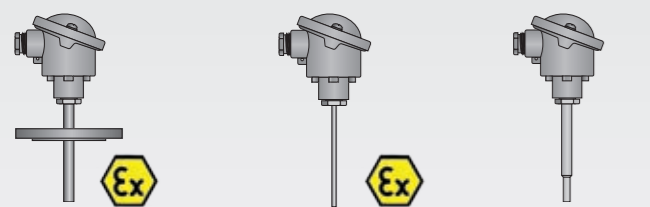


KROHNE INOR
Temperature Measurement
Since 1939

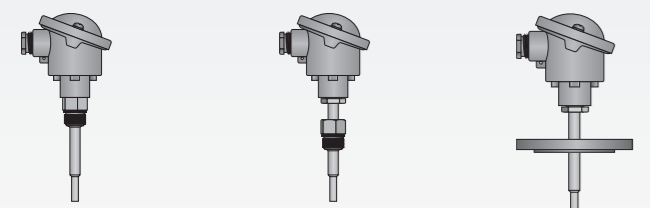
VTS1
Industrial temperature assemblies



TRA/TCA-P10 Form 2 TRA/TCA-S11 TRA/TCA-S12 Form 2G

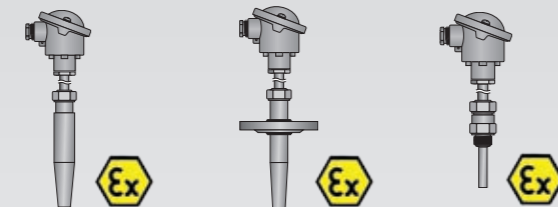


TRA/TCA-F13 Form 2F TRA/TCA-P14 TRA/TCA-P20

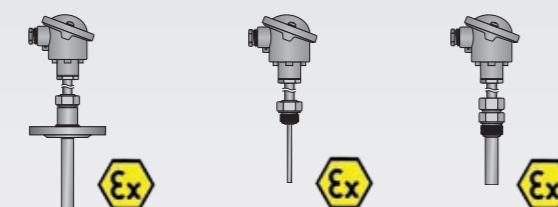


TRA/TCA-S21 TRA/TCA-S22 TRA/TCA-F23

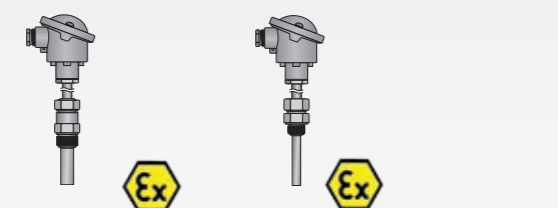
VTS2
Temperature assemblies for advanced requirements (DIN standard)



TRA/TCA-T30 Form 4 TRA/TCA-TF31 Form 4F TRA/TCA-TS32 Form 5

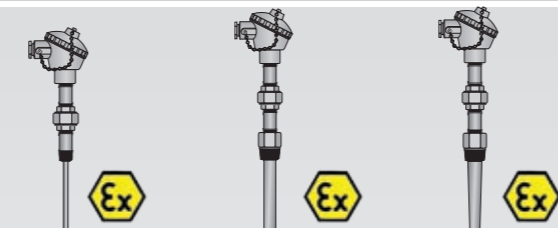


TRA/TCA-TF33 TRA/TCA-S34 TRA/TCA-TS35 Form 8

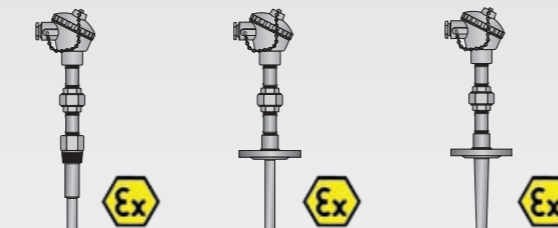


TRA/TCA-TS36 Form 7 TRA/TCA-TS37 Form 9

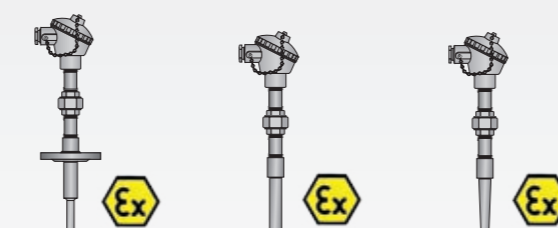
VTS3
Temperature assemblies for advanced requirements (ASME standard)



TRA/TCA-S50 TRA/TCA-TS52 TRA/TCA-TS53

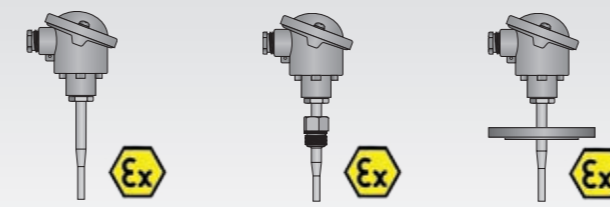


TRA/TCA-TS54 TRA/TCA-TF55 TRA/TCA-TF56



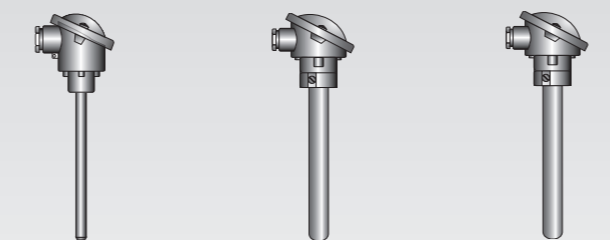
TRA/TCA-TF57 TRA/TCA-TW58 TRA/TCA-TW59

VTS4
Industrial temperature assemblies

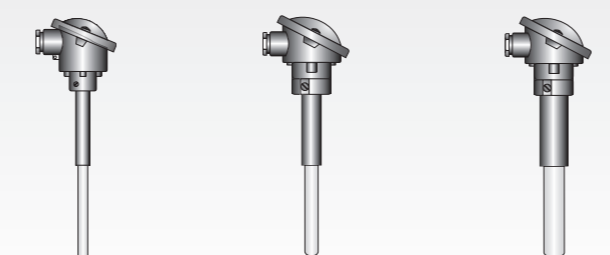


TRA/TCA-P40 Form 3 TRA/TCA-S41 Form 3G TRA/TCA-F42 Form 3F

VTC1
High temperature assemblies
(+600...+1600 °C / +1112...+2912 °F)

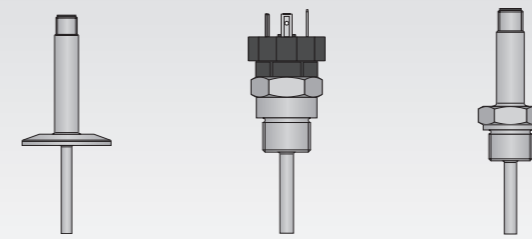


TCA-P60 TCA-P61 TCA-P62



TCA-P63 TCA-P64 TCA-P65

Compact sensors



TRA-C10 TRA-C20 TRA-C30

Transmitters

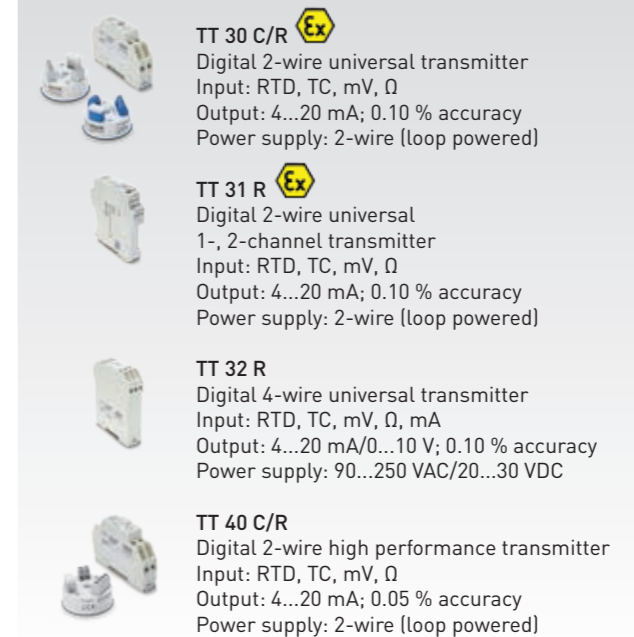


TT 10 C/R
Analogue adjustable 2-wire RTD/TC transmitter
Input: Pt100; 3-wire; Type J, L, T, K, N
Output: 4...20 mA; 0.15 % accuracy
Power supply: 2-wire (loop powered)

TT 11 C/R
Analogue adjustable 3-wire RTD transmitter
Input: Pt100, Pt1000; 3-wire
Output: 0...10 V; 0.15 % accuracy
Power supply: 15...30 VDC; 3-wire

TT 20 C
Analogue PC-programmable 2-wire RTD transmitter
Input: Pt100; 3-wire
Output: 4...20 mA; 0.10 % accuracy
Power supply: 2-wire (loop powered)

Isolated transmitters



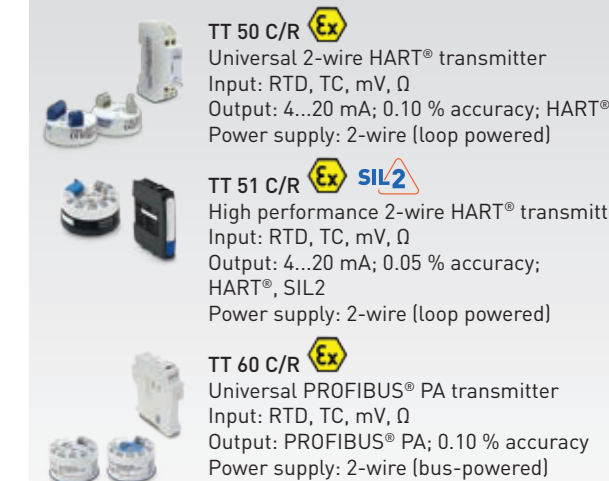
TT 30 C/R
Digital 2-wire universal transmitter
Input: RTD, TC, mV, Ω
Output: 4...20 mA; 0.10 % accuracy
Power supply: 2-wire (loop powered)

TT 31 R
Digital 2-wire universal 1-, 2-channel transmitter
Input: RTD, TC, mV, Ω
Output: 4...20 mA; 0.10 % accuracy
Power supply: 2-wire (loop powered)

TT 32 R
Digital 4-wire universal transmitter
Input: RTD, TC, mV, Ω, mA
Output: 4...20 mA/0...10 V; 0.10 % accuracy
Power supply: 90...250 VAC/20...30 VDC

TT 40 C/R
Digital 2-wire high performance transmitter
Input: RTD, TC, mV, Ω
Output: 4...20 mA; 0.05 % accuracy
Power supply: 2-wire (loop powered)

Smart transmitters



TT 50 C/R
Universal 2-wire HART® transmitter
Input: RTD, TC, mV, Ω
Output: 4...20 mA; 0.10 % accuracy; HART®
Power supply: 2-wire (loop powered)

TT 51 C/R
High performance 2-wire HART® transmitter
Input: RTD, TC, mV, Ω
Output: 4...20 mA; 0.05 % accuracy; HART®, SIL2
Power supply: 2-wire (loop powered)

TT 60 C/R
Universal PROFIBUS® PA transmitter
Input: RTD, TC, mV, Ω
Output: PROFIBUS® PA; 0.10 % accuracy
Power supply: 2-wire (bus-powered)

OPTITEMP TT51
The new transmitter at a glance



optitempTT51.krohne.com

