

General comment:

-ATEX certificate to be submitted for all transmitters.
-IP rating min. 65 to be considered

WIKA Alexander Wiegand SE & Co. KG
PF 1180 • 63908 Klingenberg • Germany

DELTA TECH GmbH
Farshad Shoarian
ALSTER TOWER
Lübecker Straße 1
22087 Hamburg
Germany

Delivery address

Engemann u. Co Internationale Spedition GmbH
For Alfons Köster / in order Delta GmbH
Otto-Hahn-Str. 29
40721 Hilden
Germany

Quotation

Q110060001

08/08/2024

Customer no.	43327028		
Inquiry no.	RFQ for Instruments- PR 200	Contact	Namrata Tayade
Reference	RFQ for Instruments- PR 200	E-Mail	Namrata.Tayade@wika.com
Inquiry date	23/07/2024		
Contact	Farshad Shoarian		
E-Mail	planning@delta-gmbh.eu		
VAT-No.	DE4871404580		
Terms of payment	30 days net	Mode of delivery	Special Agreement
Discount	no cash discount	Terms of delivery	EXW - EX Works
Currency	EUR		

Position overview

Line	Qty	Unit	Item	Your item number	Delivery time	Unit price	per	Net value	
010	2,000	Pcs			~ 10 weeks	628,75	/1	1.257,50	
			233.30.100 -1/+24 barg 1/2 NPT lower mount						
020	2,000	Pcs			~ 10 weeks	1.824,43	/1	3.648,86	
			IPT-20, -1...+40 bar gauge, Thread 1/2NPT PN1000, ASME B1.20.1 / 316L Sealing: without, -40 ... +105°C, 4...20 mA/HART , ATEX II 1G Ex ia IIC T6...T1 Ga						
030	8,000	Pcs			~ 10 weeks	1.824,43	/1	14.595,44	
			IPT-20, -1...+40 bar gauge, Thread 1/2NPT PN1000, ASME B1.20.1 / 316L Sealing: without, -40 ... +105°C, 4...20 mA/HART , ATEX II 1G Ex ia IIC T6...T1 Ga						
040	2,000	Pcs			~ 10 weeks	1.805,42	/1	3.610,84	
			IPT-20, -1...+40 bar gauge, Thread 1/2NPT PN1000, ASME B1.20.1 / 316L Sealing: without, -40 ... +105°C, 4...20 mA/HART , ATEX II 1G Ex ia IIC T6...T1 Ga						
050	12,000	Pcs	14275402		~ 10 weeks	165,35	/1	1.984,20	
			IV202 1/2NPTF-1/2NPTF A316 1/4NPTF PTFE 6k						
060	2,000	Pcs			~ 10 weeks	688,68	/1	1.377,36	
			TR12-B, Ex i, 1xPt100, 3-w, Cl.A, -100...+450°C, Ø 6 mm, Terminal block						
070	2,000	Pcs			~ 10 weeks	667,64	/1	1.335,28	
			TR12-B, Ex i, 1xPt100, 3-w, Cl.A, -100...+450°C, Ø 6 mm, Terminal block						
080	2,000	Pcs			~ 10 weeks	772,84	/1	1.545,68	
			TR12-B, Ex i, 1xPt100, 3-w, Cl.A, -100...+450°C, Ø 6 mm, Terminal block						

WIKA Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Straße 30
63911 Klingenberg
Germany
Phone +49 9372 132-0
Fax +49 9372 132-406
info@wika.de
www.wika.de
WEEE-Reg-Nr. DE 92770372
VAT.No.: DE131878642

Limited partnership company:
Place of business Klingenberg
Local court Aschaffenburg HRA 1819
General partner:
WIKA International SE – Pöb Klingenberg
Local court Aschaffenburg HRB 10505
Chairman of the board: Alexander Wiegand
Chairman of the supervisory board: Prof. Dr. Roderich C. Thümmel

Bank account:
Commerzbank Aschaffenburg
BIC: COBADEFF795
IBAN DE57 7954 0049 0104 1177 00
Sparkasse Aschaffenburg Miltenberg
BIC: BYLADEM1ASA
IBAN: DE95 7955 0000 0430 1062 94
Sydbank (DKK Payments)
BIC: SYBKDK22
IBAN: DK02 8072 0001 0403 60

Quotation **Q110060001-2**
43327028 DELTA TECH GmbH, Hamburg

Page 2 / 15
08/08/2024

Line	Qty Unit	Item	Your item number	Delivery time	Unit price	per	Net value
090	6,0000 Pcs	TIF50-I, Field housing, Ex i - gas/dust, ATEX/IECEX		~ 10 weeks	989,82	/1	5.938,92

EUR

Net value of goods	35.294,09
Discount	-4.411,78
Position markup	174,33
Packaging	308,82
Total net amount	31.365,46
VAT not included	

* For discounts and surcharges, please see detailed quote on next page(s).

WIKAL Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Straße 30
63911 Klingenberg
Germany
Phone +49 9372 132-0
Fax +49 9372 132-406
info@wika.de
www.wika.de
WEEE-Reg-Nr. DE 92770372
VAT.No.: DE131878642

Limited partnership company:
Place of business Klingenberg
Local court Aschaffenburg HRA 1819
General partner:
WIKAL International SE – Pöb Klingenberg
Local court Aschaffenburg HRB 10505
Chairman of the board: Alexander Wiegand
Chairman of the supervisory board: Prof. Dr. Roderich C. Thümmel

Bank account:
Commerzbank Aschaffenburg
BIC: COBADEFF795
IBAN DE57 7954 0049 0104 1177 00
Sparkasse Aschaffenburg Miltenberg
BIC: BYLADEM1ASA
IBAN: DE95 7955 0000 0430 1062 94
Sydbank (DKK Payments)
BIC: SYBKDK22
IBAN: DK02 8072 0001 0403 60

Please note that all TIT's are direct mounted. please make sure this requirement has been considered in offer



Quotation Q110060001-2
43327028 DELTA TECH GmbH, Hamburg

Page 3 / 15
08/08/2024

Price has been more than doubled rather than previous projects. please recheck and modify

Detailed quotation

Line	Qty	Unit	Item	Your item number	Delivery time	Unit price	per	Net value
010	2,0000	Pcs			~ 10 weeks	628,75	/1	1.257,50

233.30-E-8V425Z-ND-UZHZCZZ-AHA1ZMZ
 IV202-N1S1DN-LPSZZZ-Z1Z-NZZ
 CERT31-EG2D-AB-BB-CF- - - - -
 LABEL-PG2DE-ZZZZZ
 Bourdon Tube Pressure Gauges, Safety Pattern
 Series EN 837-1
 Model: 233.30
 Specifications according to data sheet: PM 02.04
 Measuring system: stainless steel
 Case filling: with
 Nominal size: 100 mm
 Measuring range: vacuum- or compound-range
 Scale range: -1...+24 barg
 Process connection: 1/2 NPT
 Connector location: lower mount
 Window: laminated safety glass
 Pointer: standard pointer
 Explosion protection: ATEX
 Zone: Gas Zone 1 / Dust Zone 21 (II 2G Ex h IIC T6 ... T1 Gb X / II 2D Ex h IIIC T85 °C ... T450 °C Db X)
 Accuracy class: class 1.0
 Case material: Stainless steel 316Ti
 Material pressure element: Measuring System 316L
 Case filling fluid: glycerine-water-mixture
 Ingress protection: IP 65
 Permissible medium temperature: + 100 °C
 Permissible ambient temperature: -20 ... +60 °C
 Pressure Gauge Standard: International (standard Europe)
 with Serial number
 Ignition protection type: Ex h
 Permissible ambient temperature: -20 ... +60 °C
 Inspection certificate 3.1 per EN 10204
 Certificate type: Inspection certificate acc. to DIN EN 10204 3.1
 Certificate Language: English and German
 Certificate for: pressure gauge
 Accuracy: Calibration values listed
 Material certificate: Wetted parts material (metal contents) with mill certificate incl. chemical analysis
 Pressure and stability test: 1.3 x full scale range; duration 5 minutes
 assembled to:
 IV202 1/2NPTM-1/2NPTF A316 1/4NPTF PTFE 6k
 Block and bleed valve, 2-valve manifold
 Design: Square, In-line
 1/2 NPT male - 1/2 NPT female
 Stainless steel 316/316L - 1.4401/1.4404 - S31600/S31603
 Without bracket hole
 Vent connection: 1/4" NPT female
 Nominal pressure: 6000 psi / 420 bar
 Material packing: PTFE
 NACE MR0175 Sour Gas Service & Inspection certificate 3.1, EN 10204, all wetted parts material

There is no electrical part in pressure gauge. please clarify

Glycerine

-45~120

+ 100 °C

Please clarify

Please offer manifold valve as optional price

Nace is not required

Note :

WIKA Alexander Wiegand SE & Co. KG
 Alexander-Wiegand-Straße 30
 63911 Klingenberg
 Germany
 Phone +49 9372 132-0
 Fax +49 9372 132-406
 info@wika.de
 www.wika.de
 WEEE-Reg-Nr. DE 92770372
 VAT.No.: DE131878642

Limited partnership company:
 Place of business Klingenberg
 Local court Aschaffenburg HRA 1819
 General partner:
 WIKA International SE – Pöb Klingenberg
 Local court Aschaffenburg HRB 10505
 Chairman of the board: Alexander Wiegand
 Chairman of the supervisory board: Prof. Dr. Roderich C. Thümmel

Bank account:
 Commerzbank Aschaffenburg
 BIC: COBADEFF795
 IBAN DE57 7954 0049 0104 1177 00
 Sparkasse Aschaffenburg Miltenberg
 BIC: BYLADEM1ASA
 IBAN: DE95 7955 0000 0430 1062 94
 Sydbank (DKK Payments)
 BIC: SYBKDK22
 IBAN: DK02 8072 0001 0403 60

Detailed quotation

Line	Qty	Unit	Item	Your item number	Delivery time	Unit price	
			1) External zero point not offered due to requirement is ATEX 2) Required case material is SS316, offered case material is SS316TI TAG-1 (SS tag plate) PG-RU0001A-01; PG-RU0001B-01 Customs tariff number: 90262040				There is no electrical connection in PG. ATEX is not applicable. please clarify
			Discount 12,50%				-157,19
			Tag plates				6,00
			Line total				1.106,31

Link to product details

https://en-co.wika.de/232_30_233_30_en_co.WIKA
https://en-co.wika.de/iv2_en_co.WIKA

020	2,0000	Pcs	IPT-20-AIA-AIZBZ-H2-BV441-GLYSYZS3-ZZS-1Z CERT31-EGPT-AB-BB-CF- - - - - Industrial process transmitter IPT-2x with metallic sensor element Model: IPT-20 Specifications according to data sheet: PE 86.06 Measuring range: adjustable with turn down up to 100 : 1 Process connection type: Standard connection with pressure port Electrical approval: ATEX Ignition protection type: Ex i - Intrinsic safety Zone: Zone 0 gas [II 1G] Ex ia IIC T6 T1 Ga Housing material: Aluminum single loop powered, 24Vdc Case version: compact/ IP66/IP67; NEMA 4X Digital Display: with integrated indicating/adjustment module (top) Output signal: 4...20 mA, 2-wire, HART Electrical connection: M20x1,5 / cable gland brass nickel plated (ø5.9mm) Measuring range: -1...+40 bar gauge Accuracy: 0.2 % of span process connection form: Gauge connection open Process connection / wetted parts: Thread 1/2NPT PN1000, ASME B1.20.1 / 316L Sealing: without, -40 ... +105°C Clean specification: without Filling of sensor: synthetic oil Certification sterile processes: without Wetted parts: stainless steel Certificates/Approvals: with certificate of approval Unit scaling: bar lower scaling prefix: - Scaling lower value: 1.00 upper scaling prefix: + Scaling high value: 10.30 Density unit: kg/dm³ Mounting device: Mounting bracket for wall and pipe mounting (stainless steel) (for 2" pipe) Sensor principle: piezoresistiv Inspection certificate 3.1 per EN 10204 Certificate type: Inspection certificate acc. to DIN Certificate Language: English and German		~ 10 weeks	1.824,43	/1	3.648,86
-----	--------	-----	---	--	------------	----------	----	----------

-Zero/Span adjustment to be considered

Housing to be coated

loop powered, 24Vdc

This value related to operating temperature?

NPTM

bar-g

ATEX type certificate to be added

Detailed quotation

Line	Qty	Unit	Item	Your item number	Delivery time	Unit price	per	Net value	
			Certificate for: process pressure transmitter Accuracy: Calibration values listed ← Please clarify Material certificate: Wetted parts material (metal contents) with mill certificate incl. chemical analysis Pressure and stability test: 1.3 x full scale range; duration 5 minutes Deviation: 1) Required element material stainless steel and Hastelloy offered stainless steel, please check 2) IPT-20 suitable temp. is -40 DegC 3) Required Wetted O-Rings Material : Teflon-coated 316L: not offered 4) WIKA offered manifold loose assembly TAG-1 (SS tag plate) PIT-RU0001A-01; PIT-RU0001B-01 Customs tariff number: 90262020 Discount 12,50% -456,11 Tag plates 6,00 Line total 3.198,75						

Link to product details

https://en-co.wika.de/ipt_20_ipt_21_en_co.WIKA

030	8,0000	Pcs	~ 10 weeks 1.824,43 /1 14.595,44 IPT-20-AIA-AIZBZ-H2-BV441-GLYSYZS3-ZZS-1Z CERT31-EGPT-AB-BB-CF- - - - - - Industrial process transmitter IPT-2x with metallic sensor element Model: IPT-20 Specifications according to data sheet: PE 86.06 Measuring range: adjustable with turn down up to 100 : 1 Process connection type: Standard connection with pressure port Electrical approval: ATEX Ignition protection type: Ex i - intrinsic ← Housing to be coated Zone: Zone 0 gas [II 1G Ex ia IIC T6...T1 Ga] Housing material: Aluminum single channel ← loop powered,24Vdc Case version: compact/ IP66/IP67, NEMA 4X Digital Display: with integrated indicating/adjustment module (top) Output signal: 4...20 mA, 2-wire, HART Electrical connection: M20x1,5 / cable gland brass nickel plated (ø5-9mm) Measuring range: -1...+40 bar gauge Accuracy: 0.2 % of span process connection form: Gauge connection open Process connection / wetted parts: Thread ½NPT PN1000, ASME B1.20.1 / 316L Sealing: without, -40 ... +105°C Clean specification: without Filling of sensor: synthetic oil Certification sterile processes: without ← ATEX type certificate to be added Wetted parts: stainless steel Certificates/Approvals: with certificate or approval Unit scaling: bar lower scaling prefix: - Scaling lower value: 1.00					
-----	--------	-----	--	--	--	--	--	--

Detailed quotation

Line	Qty Unit	Item	Your item number	Delivery time	Unit price	per	Net value
		upper scaling prefix: + Scaling high value: 27.60 Density unit: kg/dm ³ Mounting device: Mounting bracket for wall and pipe mounting (stainless steel) (for 2" pipe) Sensor principle: piezoresistiv Inspection certificate 3.1 per EN 10204 Certificate type: Inspection certificate acc. to DIN EN 10204 3.1 Certificate Language: English and German Certificate for: process pressure transmitter Accuracy: Calibration values listed Material certificate: Wetted parts material (metal contents) with mill certificate incl. chemical analysis Pressure and stability test: 1.3 x full scale range; duration 5 minutes Deviation: 1) Required element material stainless steel and Hastelloy offered stainless steel, please check 2) Required Wetted O-Rings Material : Teflon-coated 316L: not offered 3) WIKA offered manifold loose assembly TAG-1 (SS tag plate) PIT-RU0001A-02; PIT-RU0001B-02; PIT-RU0001A-03; PIT-RU0001B-03; PIT-RU0001A-05; PIT-RU0001B-05; PIT-RU0001A-06; PIT-RU0001B-06 Customs tariff number: 90262020 Discount 12,50% -1.824,43 Tag plates 24,00 Line total 12.795,01					

Link to product details

https://en-co.wika.de/ipt_20_ipt_21_en_co.WIKA

040	2,0000 Pcs	IPT-20-AIA-AIZBZ-H2-BV441-GLYSYZS3-ZZS-1Z CERT22-EGPT-BB- - - - - - CERT31-EGPT-AB-BB- - - - - - Industrial process transmitter IPT-2x with metallic sensor element Model: IPT-20 Specifications according to data sheet: PE 86.06 Measuring range: adjustable with turn down up to 100 : 1 Process connection type: Standard connection with pressure port Electrical approval: ATEX Ignition protection type: Ex i - intrinsically safe Zone: Zone 0 gas [II 1G Ex ia IIC T6...T1 Ga] Housing material: Aluminum single chamber Case version: compact/ IP66/IP67; NEMA 4X Digital Display: with integrated indicating/adjustment module (top) Output signal: 4...20 mA, 2-wire, HART Electrical connection: M20x1,5 / cable gland brass nickel plated (ø5-9mm) Measuring range: -1...+40 bar gauge Accuracy: 0.2 % of span process connection form: Gauge connection open Process connection / wetted parts: Thread ½NPT PN1000, ASME B1.20.1 / 316L		~ 10 weeks	1.805,42	/1	3.610,84
-----	------------	---	--	------------	----------	----	----------

Detailed quotation

Line	Qty	Unit	Item	Your item number	Delivery time	Unit price	per	Net value	
			Sealing: without, -40 ... +105°C Clean specification: without Filling of sensor: synthetic oil Certification sterile processes: without Wetted parts: stainless steel Certificates/Approvals: with certificate or approval Unit scaling: bar lower scaling prefix: - Scaling lower value: 1.00 upper scaling prefix: + Scaling high value: 27.60 Density unit: kg/dm³ Mounting device: Mounting bracket for wall and pipe m No need to NACE (r 2" pipe) Sensor principle: piezoresistiv Test report 2.2 per EN 10204 Certificate Language: English and German Certificate for: process pressure transmitter Material certificate: Wetted metallic components per NACE MR 0175 Inspection certificate 3.1 per EN 10204 Certificate type: Inspection certificate acc. to DIN EN 10204 3.1 Certificate Language: English and German Certificate for: process pressure transmitter Accuracy: Calibration values listed Material certificate: Wetted parts material (metal contents) with mill certificate incl. chemical analysis Deviation: 1) Required element material stainless steel and Hastelloy offered stainless steel, please check 2) Required Wetted O-Rings Material : Teflon-coated 316L: not offered 3) WIKA offered manifold loose assembly TAG-1 (SS tag plate) PIT-RU0001A-04; PIT-RU0001B-04 Customs tariff number: 90262020 Discount 12,50% -451,36 Tag plates 6,00 Test report 2.2 per EN 10204 96,33 Line total 3.261,82						

Link to product details

https://en-co.wika.de/ipt_20_ipt_21_en_co.WIKA

050	12,0000	Pcs	14275402		~ 10 weeks	165,35	/1	1.984,20	
			IV202 1/2NPTF-1/2NPTF A316 1/4NPTF PTFE 6k Block and bleed valve, 2-valve manifold Design: Square, In-line 1/2 NPT female - 1/2 NPT female Stainless steel 316/316L - 1.4401/1.4404 - S31600/S31603 Without bracket hole						

Detailed quotation

Line	Qty	Unit	Item	Your item number	Delivery time	Unit price	per	Net value	
			thermowell						
			Bore depth / stem length (US) [A]: 123 mm Tip thickness [Tt]: 0.250 inch (6.4 mm) Inspection certificate acc. to DIN EN 10204 3.1 Certificate Language: English and German Thermowell / protection tube Material certificate: Wetted parts material (metal contents) with mill certificate incl. chemical analysis Pressure and stability test: Hydrostatic, internal pressure test - 500 bar (7500 psig) - 3 min. Inspection certificate acc. to DIN EN 10204 3.1 Certificate Language: English and German Measuring insert / probe Accuracy: 2 test points (0°C / 100° C) for RTD						
			Deviation: Required Head material stainless steel and transmitter Housing Material is Die cast Alu. and mentioned note is (Note 1: Element and transmitter installed on same housing. Transmitter to be locally mounted attached on temperature element), So we can considered Element housing material is aluminum. 2) Offered Neck length [N/MH]: 150 mm (approx. 6.0 inch) instead of 50 mm, please check and confirm						
			TAG-1 (SS tag plate) TIT-RU0001A-01; TIT-RU0001B-01 Customs tariff number: 90251900						
			Discount 12,50%			-172,17			
			Tag plates			6,00			
			Line total			1.211,19			

Noted, AL to be coated or painted



Link to product details

https://en-co.wika.de/tw15_en_co.WIKA
https://en-co.wika.de/tr12_b_tr12_m_en_co.WIKA

070	2,0000	Pcs			~ 10 weeks	667,64	/1	1.335,28	
			TW15-H-A-M-BC-SI-00050-00050-G3-A-0160-0130-10-1Z CERT31-EG3A-BB-CB- - - - - - TR12-B-AICZ-13HS-5F2AA-ZZ-MTAE-15000100-60RZ-CZ CERT31-EG3B-AC- - - - - - TR12-B, Process resistance thermometer for additional thermowell Specifications according to data sheet: TE 60.17 Electrical approval: ATEX Ignition protection type: Ex i Zone 1 gas [II 2G Ex ia IIC T1...T6 Gb] 1xPt100, 3-wire Class A, IEC 60751 Temperature range of selected class: -100...+450°C Head / housing: 5/6000, Aluminum, screw cover Thread size cable entry: 2x M20 x 1.5 Cable entry A: Thread (female) Cable entry B: Thread (female)						

Detailed quotation

Line	Qty	Unit	Item	Your item number	Delivery time	Unit price	per	Net value
------	-----	------	------	------------------	---------------	------------	-----	-----------

Transmitter: Without (terminal block)
 Neck design: Nipple-Union-Nipple
 Connection to housing / head: Male thread M20 x 1,5, with adjustable lock nut
 Connection to thermowell: Male thread M20 x 1,5
 Neck length [N/MH]: 150 mm (approx. 6.0 inch)
 Insertion length [A/L1/U2]: 100 mm
 Diameter measuring insert: 6 mm
 Sheath material measuring insert: Stainless steel 1.4571
 Measuring insert length (spare) [I5]: 268 mm
 Threaded Thermowell TW15, solid machined
 Specifications according to data sheet: TW 95.15
 Head design: Hexagon
 Thermowell style: Tapered
 Unit of measure: Metric (mm)
 Process thread [P or E]: 1/2 BSPT
 Connection to thermometer [N]: M20 x 1,5 fema
 Insertion length [U]: 50 mm
 Head length [H]: 50 mm
 Material: Stainless steel 316/316L
 Bore size [B or d1]: 0.260 inch (6.6 mm)
 Root diameter [Q]: 16 mm
 Tip diameter [V or F3]: 13 mm
 RTD / TC / Thermometer Assembly: TR12-B, Process resistance thermometer for additional thermowell
 Bore depth / stem length (US) [A]: 93 mm
 Tip thickness [Tt]: 0.250 inch (6.4 mm)
 Inspection certificate acc. to DIN EN 10204 3.1
 Certificate Language: English and German
 Thermowell / protection tube
 Material certificate: Wetted parts material (metal contents) with mill certificate incl. chemical analysis
 Pressure and stability test: Hydrostatic, internal pressure test - 500 bar (7500 psig) - 3 min.
 Inspection certificate acc. to DIN EN 10204 3.1
 Certificate Language: English and German
 Measuring insert / probe
 Accuracy: 2 test points (0°C / 100° C) for RTD

Based on purchaser datasheet, design pressure is 26 barg. Vendor to check proposed TT's could be withstand at this condition.

The comments on item 60 is applicable

Deviation:
 1) Required Head material stainless steel and transmitter Housing Material is Die cast Alu. and mentioned note is (Note 1: Element and transmitter installed on same housing. Transmitter to be locally mounted attached on temperature element), So we can considered Element housing material is aluminum.
 2) Offered Neck length [N/MH]: 150 mm (approx. 6.0 inch) instead of 50 mm, please check and confirm
 TAG-1 (SS tag plate)
 TIT-RU0001A-02; TIT-RU0001B-02
 Customs tariff number: 90251900

Discount 12,50%	-166,91
Tag plates	6,00
Line total	1.174,37

Detailed quotation

Line	Qty Unit	Item	Your item number	Delivery time	Unit price	per	Net value
------	----------	------	------------------	---------------	------------	-----	-----------

Link to product details

https://en-co.wika.de/tw15_en_co.WIKA
https://en-co.wika.de/tr12_b_tr12_m_en_co.WIKA

080	2,0000 Pcs			~ 10 weeks	772,84	/1	1.545,68
-----	------------	--	--	------------	--------	----	----------

TW15-H-A-M-BC-SI-00200-00050-G3-A-0160-0130-10-1Z
CERT31-EG3A-BB-CB- - - - - -
TR12-B-AICZ-13HS-5F2AA-ZZ-MTAE-15000250-60RZ-CZ
CERT31-EG3B-AC- - - - - -
TR12-B, Process resistance thermometer for additional thermowell
Specifications according to data sheet: TE 60.17
Electrical approval: ATEX
Ignition protection type: Ex i
Zone 1 gas [II 2G Ex ia IIC T1...T6 Gb]
1xPt100, 3-wire
Class A, IEC 60751
Temperature range of selected class: -100...+450°C
Head / housing: 5/6000, Aluminum, screw cover
Thread size cable entry: 2x M20 x 1.5
Cable entry A: Thread (female)
Cable entry B: Thread (female)
Transmitter: Without (terminal block)
Neck design: Nipple-Union-Nipple
Connection to housing / head: Male thread M20 x 1,5, with adjustable lock nut
Connection to thermowell: Male thread M20 x 1,5
Neck length [N/MH]: 150 mm (approx. 6.0 inch)
Insertion length [A/L1/U2]: 250 mm
Diameter measuring insert: 6 mm
Sheath material measuring insert: Stainless steel 1.4571
Measuring insert length (spare) [I5]: 418 mm
Threaded Thermowell TW15, solid machined
Specifications according to data sheet: TW 95.15
Head design: Hexagon
Thermowell style: Tapered
Unit of measure: Metric (mm)
Process thread [P or E]: 1/2 BSPT
Connection to thermometer [N]: M20 x 1,5 female
Insertion length [U]: 200 mm
Head length [H]: 50 mm
Material: Stainless steel 316/316L
Bore size [B or d1]: 0.260 inch (6.6 mm)
Root diameter [Q]: 16 mm
Tip diameter [V or F3]: 13 mm
RTD / TC / Thermometer Assembly: TR12-B, Process resistance thermometer for additional thermowell
Bore depth / stem length (US) [A]: 243 mm
Tip thickness [Tt]: 0.250 inch (6.4 mm)
Inspection certificate acc. to DIN EN 10204 3.1
Certificate Language: English and German
Thermowell / protection tube
Material certificate: Wetted parts material (metal contents) with mill certificate incl. chemical analysis
Pressure and stability test: Hydrostatic, internal pressure test - 500 bar (7500 psig) - 3 min.

The comments on item 60 is applicable

Based on purchaser datasheet, design pressure is 22 barg. Vendor to check proposed TT's could be withstand at this condition.

Detailed quotation

Line	Qty	Unit	Item	Your item number	Delivery time	Unit price	per	Net value	
			Inspection certificate acc. to DIN EN 10204 3.1 Certificate Language: English and German Measuring insert / probe Accuracy: 2 test points (0°C / 100° C) for RTD Deviation: 1) Required Head material stainless steel and transmitter Housing Material is Die cast Alu. and mentioned note is (Note 1: Element and transmitter installed on same housing. Transmitter to be locally mounted attached on temperature element), So we can considered Element housing material is aluminum. 2) Offered Neck length [N/MH]: 150 mm (approx. 6.0 inch) instead of 100 mm, please check and confirm. 3) WFC not performed due to velocity not given. TAG-1 (SS tag plate) TIT-RU0001A-03; TIT-RU0001B-03 Customs tariff number: 90251900						
								Discount 12,50%	
								-193,21	
								Tag plates 6,00	
								Line total 1.358,47	

Link to product details

https://en-co.wika.de/tw15_en_co.WIKA
https://en-co.wika.de/tr12_b_tr12_m_en_co.WIKA

090	6,0000	Pcs			~ 10 weeks	989,82	/1	5.938,92
-----	--------	-----	--	--	------------	--------	----	----------

TIF50-I-IZA2MZZZ-Z
 T32.1S.0IS-Z-5-KKS-ZZ3-Z
 T32KONF-1PS1003-CEHZZZ-ANNBNB00-Z
 CERT31-EG3F-AG- - - - - -
 TIF50-I, Field housing, Ex i - gas/dust, ATEX/IECEX

Specifications according to data sheet: TE 62.01
 display modul: HART® -Slave/ 4...20 mA (Standard modul)

Design / Approval
 Field housing, Ex i - gas/dust
 Additional approvals: ATEX/IECEX

Housing 5/6000 F, Aluminum, screw cover
 3 x thread M20 x 1,5

Transmitter for TIF: T32 costumer specified configuration

Digital temperature transmitter T32
 with HART-protocol
 Specifications according to ~~data~~ data sheet: TE 32.04
 Output signal: 4 ... 20 mA, 2-wire-design
 Input: configurable by means of software
 Measuring range: configurable by means of software

Loop powered, 24 Vdc

Quotation **Q110060001-2**
43327028 DELTA TECH GmbH, Hamburg

Page 13 / 15
08/08/2024

Detailed quotation

Line	Qty	Unit	Item	Your item number	Delivery time	Unit price	per	Net value	
			model: T32.1S, head mounting Explosion protection: Ex ia, for ATEX/IEC/CSA/FM/EAC/KOSHA/NEPSI/INMETRO SIL-Statement: not for SIL applications HART revision: HART® 5 Configuration: customer's specification Permissible ambient temperature [Transmitter]: -40 °C ... +85 °C Certificate: calibration values listed Transmitter configuration: Input: resistance thermometer Pt100 Sensors: Single-sensor Sensor-calculation-functionality: Sensor 1, Sensor 2 not available Sensor-Drift-Detection: not active Input configuration: 3-wire Unit: °C Measuring range: -50 °C ... +150 °C Output signal: 4 ... 20 mA, linear to temperature Lower output limit: to NAMUR (3,8 mA) Upper output limit: to NAMUR (20,5 mA) Current value for signalling down scale: 3,5 mA (NAMUR down scale) Current value for signalling up scale: 21,5 mA (NAMUR up scale) Signalling of error: down scale (uniform for all kinds of errors) Damping: off Inspection certificate acc. to DIN EN 10204 3.1 Certificate Language: English and German Transmitter Accuracy: 2 test points (start / end of transmitter range)						
			TAG-1 (SS tag plate)						
			TIT-RU0001A-01; TIT-RU0001B-01; TIT-RU0001A-02; TIT-RU0001B-02; TIT-RU0001A-03; TIT-RU0001B-03						
			Customs tariff number: 90259000						
			Discount 12,50%						-742,37
			Tag plates						18,00
			Line total						5.214,56

Link to product details

https://en-co.wika.de/tif50_tif52_en_co.WIKA

https://en-co.wika.de/t32_xs_en_co.WIKA

	EUR
Net value of goods	35.294,09
Discount	-4.411,78
Position markup	174,33
Packaging	308,82
Total net amount	31.365,46
VAT not included	

Valid until: 07/09/2024

WIKA Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Straße 30
63911 Klingenberg
Germany
Phone +49 9372 132-0
Fax +49 9372 132-406
info@wika.de
www.wika.de
WEEE-Reg-Nr. DE 92770372
VAT.No.: DE131878642

Limited partnership company:
Place of business Klingenberg
Local court Aschaffenburg HRA 1819
General partner:
WIKA International SE – Pob Klingenberg
Local court Aschaffenburg HRB 10505
Chairman of the board: Alexander Wiegand
Chairman of the supervisory board: Prof. Dr. Roderich C. Thümmel

Bank account:
Commerzbank Aschaffenburg
BIC: COBADEFF795
IBAN DE57 7954 0049 0104 1177 00
Sparkasse Aschaffenburg Miltenberg
BIC: BYLADEM1ASA
IBAN: DE95 7955 0000 0430 1062 94
Sydbank (DKK Payments)
BIC: SYBKDK22
IBAN: DK02 8072 0001 0403 60

Detailed quotation

#####

Export Restriction

(1) The Customer/Recipient shall not, at any time, sell and/or export and/or re-export, directly or indirectly,
a) to the Russian Federation; and/or
b) to territories occupied by Russian Federation; and/or
c) to the Republic of Belarus; and/or
d) for use in the Russian Federation; and/or
e) for use in territories occupied by Russian Federation; and/or
f) for use in the Republic of Belarus
directly or indirectly any
i. item(s) herein listed ("Item(s)"); and/or
ii. any intellectual property; and/or
iii. know-how; and/or
iv. any other confidential information whatsoever supplied or brought to attention to the Customer/Recipient howsoever under or in connection with this Agreement.

(2) The Customer/Recipient shall undertake its best efforts to ensure that the purpose of paragraph (1) is not frustrated by any third parties further down the commercial chain, including by possible resellers.

(3) The Customer/Recipient shall set up and maintain an adequate monitoring mechanism to detect conduct by any third parties further down the commercial chain, including by possible resellers, that would frustrate the purpose of paragraph (1).

(4) Any violation of paragraphs (1), (2) or (3) shall constitute a material breach of an essential element of this Agreement, and WIKA shall be entitled to seek appropriate remedies, including, but not limited to:

- i. termination of this Agreement; and/or
- ii. a penalty of 10 % of the total value of this Agreement or price of the items exported, whichever is higher.

(5) The Customer/Recipient shall immediately inform WIKA about any problems in applying paragraphs (1), (2) or (3), including any relevant activities by third parties that could frustrate the purpose of paragraph (1).
The Customer/Recipient shall make available to WIKA information concerning compliance with the obligations under paragraph (1), (2) and (3) within two weeks of the simple request of such information.

#####

The delivery time refers to a technically specified product in combination with the current production capacity.

This document has been processed automatically and is valid without signature.

The sales and service conditions of WIKA Alexander Wiegand SE & Co. KG apply, which you can find at https://www.wika.com/en-en/t_cs.WIKA.

Information regarding WIKA and our products as well as instruction manuals, CE Declaration of conformity and approvals can be found online at www.wika.de.

Fast calibration of temperature probes with the new standard line in our calibration lab!
If this is interesting for you please contact us, E-Mail: service.de@wika.com, Tel.: +49 9372 132 5049

WIKA Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Straße 30
63911 Klingenberg
Germany
Phone +49 9372 132-0
Fax +49 9372 132-406
info@wika.de
www.wika.de
WEEE-Reg-Nr. DE 92770372
VAT.No.: DE131878642

Limited partnership company:
Place of business Klingenberg
Local court Aschaffenburg HRA 1819
General partner:
WIKA International SE – Pob Klingenberg
Local court Aschaffenburg HRB 10505
Chairman of the board: Alexander Wiegand
Chairman of the supervisory board: Prof. Dr. Roderich C. Thümmel

Bank account:
Commerzbank Aschaffenburg
BIC: COBADEFF795
IBAN DE57 7954 0049 0104 1177 00
Sparkasse Aschaffenburg Miltenberg
BIC: BYLADEM1ASA
IBAN: DE95 7955 0000 0430 1062 94
Sydbank (DKK Payments)
BIC: SYBKDK22
IBAN: DK02 8072 0001 0403 60

Quotation **Q110060001-2**
43327028 DELTA TECH GmbH, Hamburg

Page 15 / 15
08/08/2024

Sales group Maria Stamm
Phone +49 9372 132-8814
E-Mail Maria.Stamm@wika.com

WIKAL Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Straße 30
63911 Klingenberg
Germany
Phone +49 9372 132-0
Fax +49 9372 132-406
info@wika.de
www.wika.de
WEEE-Reg-Nr. DE 92770372
VAT.No.: DE131878642

Limited partnership company:
Place of business Klingenberg
Local court Aschaffenburg HRA 1819
General partner:
WIKAL International SE – Pöb Klingenberg
Local court Aschaffenburg HRB 10505
Chairman of the board: Alexander Wiegand
Chairman of the supervisory board: Prof. Dr. Roderich C. Thümmel

Bank account:
Commerzbank Aschaffenburg
BIC: COBADEFF795
IBAN DE57 7954 0049 0104 1177 00
Sparkasse Aschaffenburg Miltenberg
BIC: BYLADEM1ASA
IBAN: DE95 7955 0000 0430 1062 94
Sydbank (DKK Payments)
BIC: SYBKDK22
IBAN: DK02 8072 0001 0403 60