



Quick Ship Guide

Sanitary Pressure & Temperature



Smart in sensing

Food, Beverage, Pharmaceutical and Life Sciences Quick Order Sheets

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Stocked Inventory:

All part numbers appearing within a "Darker Blue" background are instruments that are stocked in Lawrenceville, GA and are ready for immediate shipment. This depicted inventory is available on the first ordered bases with limited quantities. Inventory quantities will be adjusted to accommodate the incoming order rate.

How to Order:

Inquiries and purchase order placements should be directed toward your WIKA sales channel partner. If your company has a current direct account with WIKA Lawrenceville, please send requests to your assigned WIKA Account Manager. Additionally; inquiries, purchase order placements and order maintenance can be submitted using: sanitary@wika.com

WIKA - Your Partner for Sanitary Applications

In the highly regulated industries of food, beverage, pharmaceuticals, cosmetics and biotechnology, requirements for safety and cleanability are becoming increasingly stringent with a greater emphasis on risk prevention.

Measurement technologies support prevention efforts by supplying the data required to ensure high quality, repeatable production processes. In addition, these solutions also work to eliminate contamination risks -- when appropriately installed.

At WIKA, our innovative sanitary designs for pressure, temperature and level measurement have been globally recognized for supporting good manufacturing practices and cleanability, helping ensure safe production and preventing any risks to consumers. We have a broad offering of measuring instruments for your sanitary, as well as your utility and industrial applications.



Assembled diaphragm seal, for sanitary applications

Applications

- Food & Beverage
- Pharmaceutical Industry
- Biotechnology
- Cosmetics

Special features

- 2 1/2" to 4" nominal gauge size
- 1 1/2" to 4" Sanitary connections
- Tri-Clamp®, process connections
- Sanitary documentation standard
- Compliance with "3A" third party standards
- B40.100 & EN 837-1



Order numbers

Nominal Case Size & Style	2.5" Lower Mount				4.0" Lower Mount			
	Dry Case M932.3A		Glycerine Filled Case M933.3A		Dry Case M932.3A		Glycerine Filled Case M933.3A	
Tri-Clamp® Connection Size	1.5"	2.0"	1.5"	2.0"	1.5"	2.0"	1.5"	2.0"
-30 inHg ... 0 Vacuum	----	----	50642952	----	----	----	----	----
-30 inHg ... 15 psi/bar	----	----	50748653	----	50953672	----	----	----
-30 inHg ... 30 psi/bar	----	----	52730350	----	52476791	52476677	----	50450166
-30 inHg ... 60 psi/bar	----	----	52734032	----	52476804	52476685	50232720	----
-30 inHg ... 100 psi/bar	----	----	----	----	----	----	----	----
-30 inHg ... 160 psi/bar	52741084	----	----	----	----	----	----	----
0 ... 15 psi/bar	----	----	----	50367455	----	50182501	----	----
0 ... 30 psi/bar	----	----	----	----	52476731	52476642	52582655	----
0 ... 60 psi/bar	52507157	----	50767372	----	52476758	50417801	52452379	52468178
0 ... 100 psi/bar	52507165	----	50458086	52584631	52476766	50417819	50543458	50743911
0 ... 160 psi/bar	50337394	52011534	50309382	50529722	52476774	52476651	50227211	50691643
0 ... 200 psi/bar	----	----	50275879	52712475	52310361	50417827	52164438	52518710
0 ... 300 psi/bar	----	----	----	----	52476782	52476669	----	----
0 ... 400 psi/bar	----	----	50442651	----	----	----	----	----
0 ... 600 psi/bar	----	----	----	----	----	----	50949284	----

Legend: available from stock available after production ---- available, part number not assigned

Inventory is available on the first ordered bases with limited quantities. Inventoried quantities will be adjusted to accommodate the incoming order rate.

System fill fluid (FDA approved):
Positive pressure = Glycerine
Compound and vacuum pressure = Mineral oil

Note: Glycerine 8 ounce squirt bottle (gauge case filling liquid) can be ordered using WIKA part number 204. Please contact WIKA or your WIKA distributor for price and availability.

Assembled diaphragm seal, for sanitary applications

Order numbers

Nominal Case Size & Style	2.5" Lower Mount				4.0" Lower Mount			
	Dry Case M932.3A		Glycerine Filled Case M933.3A		Dry Case M932.3A		Glycerine Filled Case M933.3A	
Tri-Clamp® Connection Size	1.5"	2.0"	1.5"	2.0"	1.5"	2.0"	1.5"	2.0"
-30 inHg ... 0 Vacuum	52286959	52738876	50212672	----	52003612	50189611	52402193	----
-30 inHg ... 15 psi	52738002	52284778	----	----	----	50189646	50774174	----
-30 inHg ... 30 psi	52034135	52130444	50212869	----	50189816	50189662	52330591	----
-30 inHg ... 60 psi	50219812	50219791	50931865	50896474	50189832	50189689	50189841	52740949
-30 inHg ... 100 psi	50629743	50219871	50219863	----	50912658	50189701	50831542	----
-30 inHg ... 160 psi	----	----	----	50896971	----	----	52007600	50926152
0 ... 15 psi	52750898	----	----	----	50611950	----	50189883	52742463
0 ... 30 psi	50781162	50781171	50219944	50219961	50612352	50189786	50189905	50189794
0 ... 60 psi	50219979	50958216	50219987	50220004	50189913	50171895	50189921	50189808
0 ... 100 psi	50220012	50220039	50220021	50220047	50193554	50193571	50193562	50193589
0 ... 160 psi	50220055	50220071	50753614	50220080	50194062	50194089	50194071	50194097
0 ... 200 psi	50220098	50924184	50220101	50220128	50194101	50194127	50194119	50194135
0 ... 300 psi	50220136	----	50931849	----	50194143	50194160	50194151	50194178
0 ... 400 psi	52805924	----	----	----	----	----	50194194	50194216
0 ... 600 psi	50220217	----	52072321	52083993	50194224	----	50194232	50839489

Legend: available from stock available after production ---- available, part number not assigned

Inventory is available on the first ordered bases with limited quantities. Inventoried quantities will be adjusted to accommodate the incoming order rate.

System fill fluid (FDA approved):
Positive pressure = Glycerine
Compound and vacuum pressure = Mineral oil

Note: Glycerine 8 ounce squirt bottle (gauge case filling liquid) can be ordered using WIKA part number 204. Please contact WIKA or your WIKA distributor for price and availability.

Quick order sheet, model M93X.3A

Quick order code (you can find further possible variants in data sheet M93X.3A)

Type M932.3A - Dry Case
Type M933.3A - Liquid Filled Case

Field no.	Code	Version
Dial size		
①	25	2½" gauge case
	40	4" gauge case
Pressure Range		
②	V000	-30 inHg ... 0 Vacuum
	C015	-30 inHg ... 15 psi compound range
	C030	-30 inHg ... 30 psi compound range
	C060	-30 inHg ... 60 psi compound range
	C100	-30 inHg ... 100 psi compound range
	C160	-30 inHg ... 160 psi compound range
	P015	15 psi gauge pressure range
	P030	30 psi gauge pressure range
	P060	60 psi gauge pressure range
	P100	100 psi gauge pressure range
	P160	160 psi gauge pressure range
P200	200 psi gauge pressure range	
P300	300 psi gauge pressure range	
P400	400 psi gauge pressure range	
P600	600 psi gauge pressure range	
XXXX	Other - consult factory	
Pressure units		
③	PX	PSI - single scale
	PC	PSI outside / KG/CM² inside red
	PK	PSI outside / KPA inside red
	PB	PSI outside / BAR inside red
	SP	Special scale
Connector location		
④	LM	Lower mount
	BK	Center back mount 2½", or Lower back mount 4"
Diaphragm seal design		
⑤	22	Tri-Clamp®
	57M	Cherry Burrell - I-Line male (see note 5)
	57F	Cherry Burrell - I-Line female (see note 5)
	58	APC (see note 5)
	XX	Other - consult factory

Field no.	Code	Version
Process connection		
⑥	10	1.0" connector
	15	1.5" connector
	20	2.0" connector
	25	2.5" connector
	30	3.0" connector
40	4.0" connector	
Wetted parts material		
⑦	ES	Electropolished 316L SS (1.4435) Ra ≤ 15 µin except for weld seam
	HC	Hastelloy C276 (2.4819)
	XX	Other - consult factory
System fill		
⑧	07	KN7 - Glycerine 99.7% USP (1000 cst) - FDA 21 CFR 182.1320 (see note 1)
	59	KN59 - Neobee M20 - FDA 21 CFR 172.856, 174.5
	92	KN92 - Mineral Oil LubePharm (23 cst) - FDA 21 CFR 172.878, 178.3620 (a): USP, EP
	93	KN93 - Silicone Oil DC200 (350 cst food grade) - FDA 21 CFR 173.340
	XX	Other - consult factory
Window material		
⑨	LPC	Polycarbonate
	LPS	Polysulfone
Options - (see note 2)		
⑩	FGL	Glycerine case fill - change model # to M933.3A
	XEP	Wetted parts electro-polished w/certificate (see note 3)
	XMT	Material certificate 3.1 EN10204 (metal only) (see note 3)
	WSS	Instrument tag, Stainless steel
	RS6	Restrictor, SS, 0.6 mm orifice
	RS3	Restrictor, SS, 0.3 mm orifice (Super-restrictor)
	CE2	2" Cooling element (Tmax 350° F)
	CE4	4" Cooling element (Tmax 500° F)
	XAC	Autoclave design, case with 2 weep holes (see note 4)
	XNI	NIST - Certificate of calibration (see note 3)
	XXX	Other - consult factory

Notes:

- Glycerine (07) is not available for vacuum & compound pressure measurement ranges. Consult factory for exceptions.
- List options in alphabetical order at the end of the configuration code.
- All product under this model series is provided with calibration protocol, electropolish finish, and material based information report per 2.2 EN 10204 as standard.
- Autoclave design requires polysulfone window (LPS) and dry gauge case (M932.3A).
- Cherry Burrell and APC connections are limited to 1.5" and 2.0" connectors.

Order code: M93X.3A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

Sanitary Pressure Gauge

Applications

Pharmaceutical Industry
Biotechnology
Food & Beverage

Standard features

- 2.5" nominal case size
- 3/4" Tri-Clamp® lower mount process connection
- Wetted Material: 316L stainless steel, electro-polished
- Window Material: polycarbonate
- Sanitary documentation provided with each gauge
- Compliance with "3A" third party standards



Order numbers

Description	2.5" case, Lower Mount, 3/4" Tri-clamp®	
	Dry Case M932.25	Glycerine Filled Case M933.25
Tri-Clamp® Connection Size	Assembly Number	Assembly Number
-30 inHg ... 30 psi	4323964	50455362
-30 inHg ... 60 psi	4323972	52507149
-30 inHg ... 100 psi	---	50461419
-30 inHg ... 160 psi	---	---
0 ... 30 psi	4323999	50985290
0 ... 60 psi	4324005	4324005-0001
0 ... 100 psi	4324013	50197878
0 ... 160 psi	4324021	50345028
0 ... 200 psi	4324030	50469011
0 ... 300 psi	4324048	4324048-0001
0 ... 400 psi	---	---
0 ... 600 psi	50699075	50175581

Legend: available from stock available after production ---- available, part number not assigned
Inventory is available on the first ordered bases with limited quantities. Inventoried quantities will be adjusted to accommodate the incoming order rate.

System Fill Fluid (FDA Approved):
Positive pressure = glycerine
Compound pressure = white mineral oil

For further information see
data sheet M93X.25

Quick order sheet, model M93X.25

Quick order code (you can find further possible variants in data sheet M93X.25)

Type M932.25 - Dry Case
Type M933.25 - Liquid Filled Case

Field no.	Code	Version
Pressure Range		
①	C030	-30 inHg ... 30 psi compound range
	C060	-30 inHg ... 60 psi compound range
	C100	-30 inHg ... 100 psi compound range
	C160	-30 inHg ... 160 psi compound range
	P100	100 psi gauge pressure range
	P160	160 psi gauge pressure range
	P200	200 psi gauge pressure range
	P300	300 psi gauge pressure range
	P400	400 psi gauge pressure range
	P600	600 psi gauge pressure range
XXXX	Other - consult factory	
Pressure units		
②	PX	PSI - single scale
	PC	PSI outside / KG/CM ² inside red
	PK	PSI outside / KPA inside red
	PB	PSI outside / BAR inside red
	XX	Other - consult factory
Pressure location		
③	LM	Lower mount
	XX	Other - consult factory
Process connection		
④	75	3/4" Tri-Clamp® connector
	10	1" Tri-Clamp® connector
	XX	Other - consult factory
Wetted parts material		
⑤	ES	Electropolished 316L SS (1.4435) (see note 5)
	HC	Hastelloy C276 (2.4819)
	XX	Other - consult factory

Field no.	Code	Version
System fill		
⑥	07	KN7 - Glycerine 99.7% USP (1000 cst) - FDA 21 CFR 182.1320 (see note 1)
	59	KN59 - Neobee M20 - FDA 21 CFR 172.856, 174.5
	92	KN92 - Mineral Oil LubePharm (23 cst) - FDA 21 CFR 172.878, 178.3620 (a): USP, EP
	93	KN93 - Silicone Oil DC200 (350 cst food grade) - FDA 21 CFR 173.340
	XX	Other - consult factory
Window material		
⑦	LPC	Polycarbonate
	LPS	Polysulfone
Options - (see note 2)		
⑧	FGL	Glycerine case fill - change model # to M933.25
	CE0	Integral cooling element (Tmax 300°F)
	MZA	External zero adjustment feature
	XAC	Autoclave design, case with 2 weep holes (see note 4)
	WSS	Instrument tag, Stainless steel
	XEP	Certificate of electropolish finish
	XMT	Material Certificate 3.1 EN 10204 (metal only) (see note 3)
	XNI	NIST - Certificate of calibration

Notes:

- Glycerine (07) is not available for vacuum & compound pressure measurement ranges. Consult factory for exceptions.
- List options in alphabetical order at the end of the configuration code.
- All product under this model series is provided with calibration protocol, electropolish finish, and material based information report per 2.2 EN 10204 as standard.
- Autoclave design requires polysulfone window (LPS) and dry gauge case (M932.3A).
- Electropolish finish is Ra ≤ 15 µm per ASME BPE SF4 (except for weld seam)

Order code: M93X.25 LM

Sanitary Pressure Transmitter



Applications

Pharmaceutical Industry
Food & Beverage
Biotechnology

Standard features

- 4..20 mA, 2-wire output signal
- 10..30 VDC power supply
- DIN 43 650 with plug electrical connection
- 316L stainless steel wetted surfaces
- Accuracy - 0.5% of span
- SIP and CIP compatible
- Media temperature up to 150°C (300°F)



Order numbers

Tri-Clamp® Connection Size	1.5" Tri-Clamp®	2.0" Tri-Clamp®
Pressure Range	Assembly Number	Assembly Number
0 ... 100 inWC	4361853	4361861
0 ... 150 inWC	52806273	4373576
0 ... 250 inWC	4361887	4361879
0 ... 400 inWC	52806275	50362305
0 ... 25 psi	---	4209986
0 ... 50 psi	4200104	4200113
0 ... 100psi	4394866	50006495

Legend: available from stock available after production --- available, part number not assigned
Inventory is available on the first ordered bases with limited quantities. Inventoried quantities will be adjusted to accommodate the incoming order rate.

System Fill Fluid: Positive pressure = synthetic oil, KN77 (FDA approved, 21 CFR 178.3750)
Product certificates are not included with the above Assembly Numbers

Highlighted Assembly Numbers are available from stock, ready for immediate shipment.
Inventory is available on the first ordered based with limited quantities

For further information see
data sheet PE81.80

Quick order sheet, model SA-11

Quick order code (you can find further possible variants in data sheet PE 81.80)

Field no.	Code	Version
Output signal		
①	A	4 ... 20 mA, 2-wire
	F	0 ... 10 V, 3-wire
Pressure units		
②	B	Bar
	P	PSI
	M	mbar
	N	InWC
Pressure range		
③	XX	(see Pressure Range Table for selections)
Process connection		
④	RT	1 1/2" Tri-Clamp
	SA	2" Tri-Clamp
Electrical connection		
⑤	A4	4-pin L-plug DIN EN 175301-803, IP65
	M4	M12x1, 4-pin
	EM	flying leads, IP68
	??	Please provide specification
Cable length		
⑥	Z	without cable
	C	1.5 meter
	E	3 meter
	G	5 meter
	?	Please provide specification
Quality certificates		
⑦	Z	without certificates
	1	Quality certificates, please specify
Options		
⑧	Z	No options
	T	Additional text, please provide details

Code	Description
Pressure Range Table	
GU	0 ... 100 InWc
GV	0 ... 150 InWc
GW	0 ... 250 InWc
GX	0 ... 400 InWc
CA	-30 ... 0 InHg
CD	-30 InHg ... 30 PSI
CN	0 ... 5 PSI
CP	0 ... 10 PSI
BD	0 ... 30 PSI
BE	0 ... 60 PSI
BF	0 ... 100PSI
BG	0 ... 160 PSI
BH	0 ... 200 PSI
BI	0 ... 300 PSI
??	Please provide specification

Sanitary Pressure Transmitter w/ Integral Switches



Applications

Pharmaceutical Industry
Food & Beverage
Biotechnology

Standard features

- 4..20 mA, 3-wire output signal
- External push button programmable
- Two adjustable switches (both PNP)
- Integral LED display
- 15..35 VDC power supply
- M12x1, 5 pin electrical connection
- 316L stainless steel wetted surfaces
- SIP and CIP compatible (+135°C up to 60 minutes)
- Media temperature up to +100°C (+212°F) continuous



Order numbers

Tri-Clamp® Connection Size	1.5" Tri-Clamp®	2.0" Tri-Clamp®
Pressure Range	Assembly Number	Assembly Number
-14.5 ... 0 psi	52806234	52806264
-14.5 ... 15 psi	55817433	52806266
-14.5 ... 30 psi	52806236	52806267
0 ... 15 spi	52731892	55791971
0 ... 30 psi	52806231	52806219
0 ... 60 psi	52805993	52806218
0 ... 100 psi	55829245	52806217
0 ... 160 psi	55637761	52806190
0 ... 200 psi	52805992	52727147

Legend: available from stock available after production --- available, part number not assigned
Inventory is available on the first ordered bases with limited quantities. Inventoried quantities will be adjusted to accommodate the incoming order rate.

Order code: SA-11 -A-G- -Z-

Notes:
1) System Fill Fluid (FDA Approved): white mineral oil, KN92
2) Product certificates are not included with the above Assembly Numbers

Quick order sheet, model PSA-31

Quick order code (you can find further possible variants in data sheet PE 81.85)

Field no.	Code	Version
Electrical output		
①	O	One switch output (PNP) & 4 ... 20 mA
	Q	Two switch output (PNP) & 4 ... 20 mA
	T	One switch output (NPN) & 4 ... 20 mA
	V	Two switch output (NPN) & 4 ... 20 mA
Pressure reference		
②	G	Gauge pressure
	C	Compound pressure
Pressure range		
③	XX	(see Pressure Range Table for selections)
Process connection		
④	RT	1 1/2" Tri-Clamp
	SA	2" Tri-Clamp
Electrical connection		
⑤	M4	M12x1, 4-pin (one switch)
	M5	M12x1, 5-pin electrical connection (two switches)
Quality certificates		
⑥	Z	without certificates
	1	Quantity certificates, please specify
Options		
⑦	Z	No options
	T	Additional text, please provide details

Code	Description
Pressure Range Table	
310	-14.5 ... 0 PSIG
320	-14.5 ... 15 PSIG
327	-14.5 ... 25 PSIG
331	-14.5 ... 30 PSIG
345	-14.5 ... 50 PSIG
379	-14.5 ... 100 PSIG
310	0 ... 15 PSIG
317	0 ... 25 PSIG
321	0 ... 30 PSIG
335	0 ... 50 PSIG
341	0 ... 60 PSIG
369	0 ... 100 PSIG
411	0 ... 160 PSIG
414	0 ... 200 PSIG
417	0 ... 250 PSIG
421	0 ... 300 PSIG

Order code: PSA-31- -P Z- -W3-

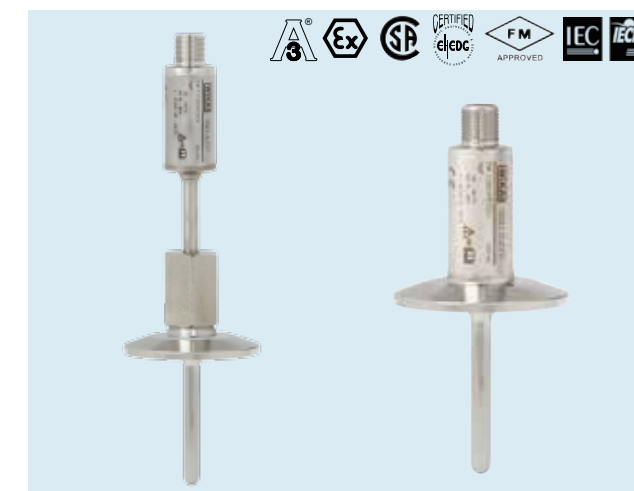
Miniature Sanitary Temperature Transmitter

Applications

- Pharmaceutical
- Biotechnology
- Food & Beverage
- Cosmetics

Special features

- Compact design
- Simple and fast M12 x 1 electrical connection
- Pt100, Pt1000 or 4...20mA output signal
- Programmable configuration using free-of-charge WI-KASoft-TT PC software
- IP rating up to IP69K to accommodate autoclave sterilization (See Wika datasheet for additional details)



TR21-A
Data Sheet, TE 60.26

TR21-C
Data Sheet, TE 60.28

Order numbers

Process Connection Style	Tri-Clamp®						
Output Signal	4 ... 20 mA, 2-wire						
Temperature Range	0° ... +150°C						
Electrical Connection	M12 x 1, 4-pin						
Insertion Length	see below, to accommodate "instrumentation Tee", per ASME BPE						
Insertion Probe Diameter	0.24 inches (6 mm)						
Thermowell	Included with TR21-A						
	Instrument Part Number	Tri-Clamp® Size	Insertion Length, Inches (mm)	Wetted Material	Certificates	Approvals	
Model Type	TR21-A	52750901	3/4"	1.14" (29)	316L SS, electro-polished, Ra ≤ 15 µinch (0.38 µm)	3.1 MTR; 3.1 Calibration (3 pt; 0°C, +50°C & +100°C); 2.2 Surface finish	CSA/FM/IECEX/ATEX/3-A/EHEDG
		52750902	1.0"	1.14" (29)			
		52750904	1.5"	1.38" (35)			
	TR21-A	52750905	2.0"	1.65" (42)	316L SS, Ra ≤ 15 µinch (0.38 µm)	None	3-A/EHEDG
		52750891	3/4"	1.14" (29)			
		52750894	1.0"	1.14" (29)			
		52750895	1.5"	1.38" (35)			
		52751693	1.5"	2.88" (73)			
	TR21-C	52750897	2.0"	1.65" (42)	316L SS, electro-polished, Ra ≤ 15 µinch (0.38 µm)	3.1 MTR; 3.1 Calibration (3 pt; 0°C, +50°C & +100°C); 2.2 Surface finish	CSA/FM/IECEX/ATEX/3-A/EHEDG
		52751694	2.0"	3.38" (86)			
		52750885	3/4"	1.14" (29)			
		52750888	1.0"	1.14" (29)			
TR21-C	52750889	1.5"	1.38" (35)	316L SS, Ra ≤ 15 µinch (0.38 µm)	None	3-A/EHEDG	
	52750890	2.0"	1.65" (42)				
	52750790	3/4"	1.14" (29)				
	52750794	1.0"	1.14" (29)				
	52750883	1.5"	1.38" (35)				
	52751691	1.5"	2.88" (73)				
52750884	2.0"	1.65" (42)					
52751692	2.0"	3.38" (86)					

Legend: available from stock available after production ---- available, part number not assigned
Inventory is available on the first ordered bases with limited quantities. Inventoried quantities will be adjusted to accommodate the incoming order rate.

Quick order sheet, model TR21-A, TR21-C

Quick order code (you can find additional options in data sheet TE 60.26, TE 60.28)

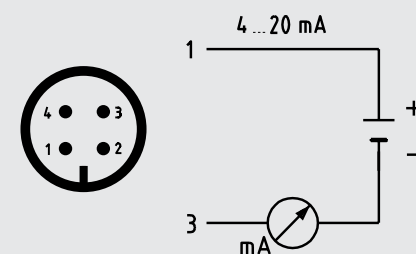
Field no.	Code	Version
Approvals		
①	Z	without Approvals
	B	ATEX / IECEx Approval
	W	CSA / FM / ATEX / IECEx Approval
High temperature range		
②	0100	+100°C high end of temperature range
	0150	+150°C high end of temperature range
Process connection		
③	3B	3/4" Tri-Clamp process connection
	3C	1.0" Tri-Clamp process connection
	3D	1.5" Tri-Clamp process connection
	3E	2.0" Tri-Clamp process connection
Wetted materials		
④	D	Wetted material, 316L SS, Ra ≤ 30 µinch (0.76 µm)
	4	Wetted material, 316L SS, Ra ≤ 15 µinch (0.38 µm)
	3	Wetted material, 316L SS, electro-polished, Ra ≤ 15 µinch (0.38 µm)
Insertion length		
⑤	XXXX	Insertion length (millimeters), 4 digits [Ex.: 75mm = 0075]
Certificates		
⑥	Z	no certificates required
	1	Certificate(s) required, please define

Order code: TR21-A-^① TT-CL0000^② 1T^③ 6^④ 06^⑤ (WIKA defined, 8 digits) FZZ-Z^⑥ Z

Order code: TR21-C-^① TT-CL0000^② WT^③ 6^④ ZZZZ- FZZ-Z^⑥ Z

Electrical connection

Output signal 4 ... 20 mA
M12 x 1 circular connector (4-pin)



Pin	Signal	Description
1	L+	10 ... 30 V
2	VQ	not connected
3	L-	0 V
4	C	not connected

Bimetal Thermometer, Adjustable All-Angle

Applications

- Pharmaceutical Industry
- Food & Beverage
- Biotechnology
- Cosmetics

Standard features

- Dual scale (°F/°C)
- Adjustable all-angle mounting
- 1/2"NPT-male process connection
- 304 stainless steel wetted surfaces
- Ø0.25" stem
- Acrylic window material
- 3" and 5" nominal dial size
- Resettable zero adjustment
- Accurate to +/- 1% of full scale



Model TI.32 = 3" dial size
Model TI.52 = 5" dial size

Order numbers	TI.32			
	3"			
Nominal Case Size	2.5"	4"	6"	9"
Stem Length (inches)				
Temperature Range (°F & °C)	Assembly Number			
-40 ... +160 °F (-40 ... +70°C)	32025D019A4	52806483	32060D019A4	52806485
0 ... +250 °F (-20 ... +120°C)	32025D006A4	32040D006A4	32060D006A4	32090D006A4
+50 ... +300 °F (10 ... +150°C)	32025D008A4	52806480	52806450	52806481
+50 ... +400 °F (10 ... +200°C)	52806445	52806446	52806443	52806447
0 ... +140 °F (-20 ... +60°C)	32025D004A4	32040D004A4	32060D004A4	32090D004A4
+20 ... +240 °F (-5 ... +115°C)	52806482	32040D007A4	52806452	52806486
+25 ... +125 °F (-5 ... +50°C)	----	52806484	32060D003A4	52806487

Order numbers	TI.52			
	5"			
Nominal Case Size	2.5"	4"	6"	9"
Stem Length (inches)				
Temperature Range (°F & °C)	Assembly Number			
-40 ... +160 °F (-40 ... +70°C)	52806488	52806530	52806531	52090D019A4
0 ... +250 °F (-20 ... +120°C)	52025D006A4	52040D006A4	52060D006A4	52090D006A4
+50 ... +300 °F (10 ... +150°C)	52025D008A4	52806533	52060D008A4	52806535
+50 ... +400 °F (10 ... +200°C)	52025D009A4	52040D009A4	52060D009A4	52806536
0 ... +140 °F (-20 ... +60°C)	52025D004A4	52806538	52060D004A4	52090D004A4
+20 ... +240 °F (-5 ... +115°C)	52806525	52040A007A4	52806539	52806541
+25 ... +125 °F (-5 ... +50°C)	----	52040D003A4	52060D003A4	52090D003A4

Legend: available from stock available after production ---- available, part number not assigned
Inventory is available on the first ordered bases with limited quantities. Inventoried quantities will be adjusted to accommodate the incoming order rate.

Product certificates are not included with the above Assembly Numbers

For further information see
data sheet TI.32 and TI.52

Quick order sheet, model TI.32 & TI.52

Quick order code (you can find further possible variants in data sheet TI.32 & TI.52)

Model TI.32 = 3" dial size
Model TI.52 = 5" dial size

Field no.	Code	Version
Nominal case size		
①	32	3" nominal case size
	52	5" nominal case size
Stem length (inches)		
②	025	2.5" stem length
	040	4.0" stem length
	060	6.0" stem length
	090	9.0" stem length
	120	12.0" stem length
	150	15.0" stem length
	180	18.0" stem length
	XXX	Other, please specify
Scale		
③	0	Dual scale, °F & °C
	1	Single scale, °C
	2	Single scale, °F
Temperature range		
④	03	+25 ... +125°F (-5 ... +50°C)
	04	0 ... +140 °F (-20 ... +60°C)
	06	0 ... +250 °F (-20 ... +120°C)
	07	+20 ... +240 °F (-5 ... +115°C)
	08	+50 ... +300 °F (10 ... +150°C)
	09	+50 ... +400 °F (10 ... +200°C)
	19	-40 ... +160 °F (-40 ... +70°C)
XXX	Other, please consult factory & data sheet	
Window material		
⑤	A	Acrylic
	G	Glass window
	S	Shatterproof glass
Process connection		
⑥	2	1/4"NPT-male process connection
	4	1/2"NPT-male process connection
Options		
⑦	SS	316 SS wetted components
	I	NIST certificate of Accuracy
	2	SS wired on tag
	(blank)	No options selected

Bimetal Stem Length, "S" (inches)	Thermowell Insertion Length, "U" (inches)	
	w/o Lag	w/ Lag
2.5"	1.0**	n/a
4.0"	2.5"	n/a
6.0"	4.5"	2.5"
9.0"	7.5"	4.5"
12.0"	10.5"	7.5"

* = 1.5" with smaller than 1/2" bimetal connection

Industrial Gauges - SS Case, Liquid-Filled 213.53

Applications

- Intended for adverse service conditions where pulsating or vibration exists (with liquid filling)
- Suitable for gaseous or liquid media that will not obstruct the pressure system
- Hydraulics & compressors

Standard features

- Case: 304 SS
- Wetted parts: Copper alloy
- Window: Polycarbonate
- Window ring: SS, crimped
- Dial: White aluminum
- Pointer: Black aluminum
- Case fill: Glycerine
- Accuracy: ±2/1/2% of span



Order numbers	213.53 (Glycerine-filled)			
	LM		CBM	
Nominal Case Size	2 1/2"			
Connection	1/4" NPT		1/4" NPT	
Press scale	PSI	PSI/BAR	PSI	PSI/BAR
30 inHg Vacuum	9767002	9691957	9767185	9692139
-30 inHg/15 psi	----	----	50158945	----
-30 inHg/30 psi	9767010	9691965	----	50343459
-30 inHg/60 psi	9767029	9691974	9748967	4264600
-30 inHg/100 psi	----	----	9797097	----
-30 inHg/160 psi	----	----	50144928	----
-30 inHg/200 psi	----	----	50343211	----
15 psi	9767037	9691982	9797314	----
30 psi	9767045	9691990	9767193	9692147
60 psi	9767053	9692007	9767202	9692155
100 psi	9767061	9692015	9767215	9692164
160 psi	9767070	9692024	9767223	9692172
200 psi	9767088	9692032	9767231	9692180
300 psi	9767096	9692040	9767240	9692198
400 psi	9767100	9692058	8999109	4244461
600 psi	9767118	9692066	9768947	9692202
800 psi	----	----	----	----
1,000 psi	9767126	9692075	9767258	9692210
1,500 psi	9767134	9692083	9768165	9692228
2,000 psi	9767142	9692091	9768939	9692236
3,000 psi	9767150	9692105	9767266	9692245
5,000 psi	9767169	9692113	9767274	9692253
6,000 psi	----	9748207	----	----
10,000 psi	9767177	9692121	9767282	9692261
15,000 psi	----	----	----	----

Legend: available from stock available after production ---- available, part number not assigned
For further information see data sheet 21X.53

Order code: TI. D

Industrial Gauges - SS Case, Liquid-Filled 233.53

Applications

- With liquid filled case for applications with high dynamic pressure pulsations or vibration
- Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system
- Process industry: Sanitary, chemical/petrochemical, power stations, mining, on and offshore, environmental technology, mechanical engineering and plant construction

Standard features

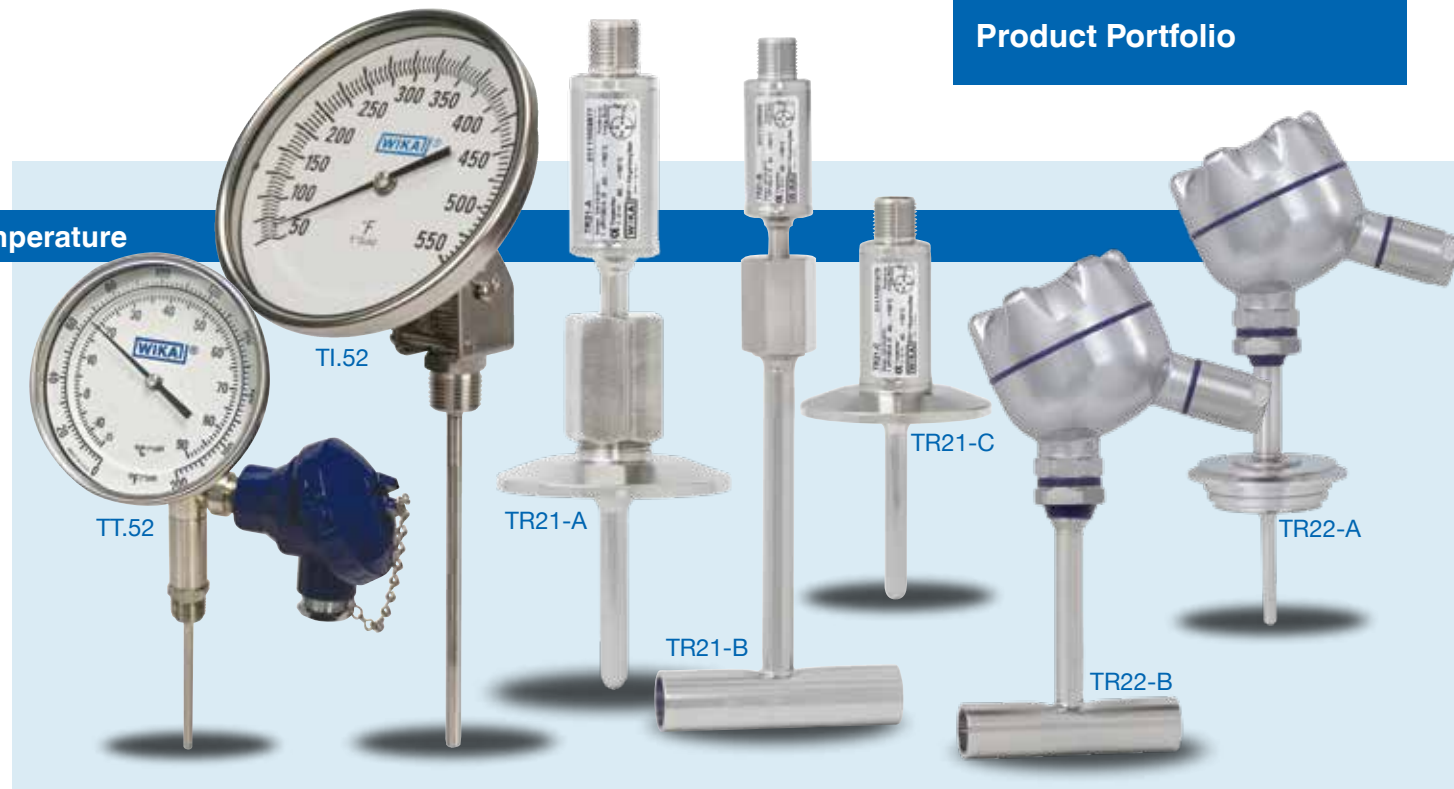
- Case: 304 SS
- Wetted parts: 316L SS
- Window: Polycarbonate
- Window ring: SS, crimped
- Dial: White aluminum
- Pointer: Black aluminum
- Case fill: Glycerine
- Accuracy: $\pm 2/1/2\%$ of span (2 1/2" sizes)
 $\pm 1\%$ of span (4" size)



Order numbers	233.53 (Glycerine-filled)					
	2 1/2"		4"			
Nominal Case Size	LM	CBM	LM	LBM		
Connection	1/4" NPT		1/4" NPT	1/2" NPT		
Press scale	PSI					
30 inHg Vacuum	9833646	9833310	9833124	9833328	9831504	
-30 inHg/15 psi	---	---	9831775	9833336	9831512	
-30 inHg/30 psi	9833638	9833302	9832993	9833345	9831520	
-30 inHg/60 psi	9833620	9833298	9833000	9833353	9831538	
-30 inHg/100 psi	---	---	9831759	9831741	9831546	
-30 inHg/160 psi	9833612	9833280	9833018	9833361	9831555	
-30 inHg/200 psi	---	---	9831767	9833379	9831563	
15 psi	9833604	9833272	9833026	9833387	9831571	
30 psi	9833590	9833264	9833035	9833395	9831589	
60 psi	9833582	9833255	9833043	9833409	9831597	
100 psi	9833574	9833247	9833051	9833417	9831601	
160 psi	9833565	9833239	9833069	9833425	9831619	
200 psi	9833557	9833221	9833077	9833434	9831627	
300 psi	9833549	9833213	9833085	9833442	9831635	
400 psi	9833531	9833205	9833094	9833450	9831644	
600 psi	9833523	9833191	9833107	9833727	9831652	
800 psi	---	---	---	---	---	
1,000 psi	9833515	9833183	9833115	9833697	9831678	
1,500 psi	9833506	9833175	---	9833701	9831686	
2,000 psi	9833493	9833166	---	9833655	9831695	
3,000 psi	9833485	9833158	---	9833719	9831708	
5,000 psi	9833476	9833140	---	9833663	9831716	
10,000 psi	9833468	9833132	---	9833671	9831725	
15,000 psi	---	---	---	9833689	9831733	

Legend: available from stock available after production --- available, part number not assigned
For further information see data sheet 23X.53

Temperature



Pressure



Calibration & Level



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