Level Transmitters
Model WIR / WFR

Application

WIR / WFR series transmitters are suitable for most industrial and commercial applications including:

- Refinery and chemical industries
- Energy and power plant technology
- Feed water heaters and boilers
- Oil and gas industries
- Offshore exploration and drilling
- Pipeline compressor applications

Features

- WIR process temperature ranges from -320°F to 600°F or -195°C to 315°C
- WFR process temperature ranges from -300°F to 480°F or -184°C to 250°C (plastic up to 212°F or 100°C)
- WIR is mounted externally to the process, can be maintained without interruption
- Cast aluminum epoxy coated housings
- WFR is an all in one unit with integrated float for internal mounting
- Optional digital display or units without digital display

Specifications

Housing Options

NEMA 4X Epoxy coated aluminum, XP/I/1BCDT6 aluminum or stainless or NEMA 7/9 FM class 1, division 1, group B

Electrical Approvals

FM

Resolutions

5mm (0.197”), 10mm (0.394”), 15mm (0.591”), or 18mm (0.708”)

Termination Type

Terminal block

WIR Options

Resolution
5mm, 10mm, 15mm, or 18mm

Unit of measure
Imperial or Metric

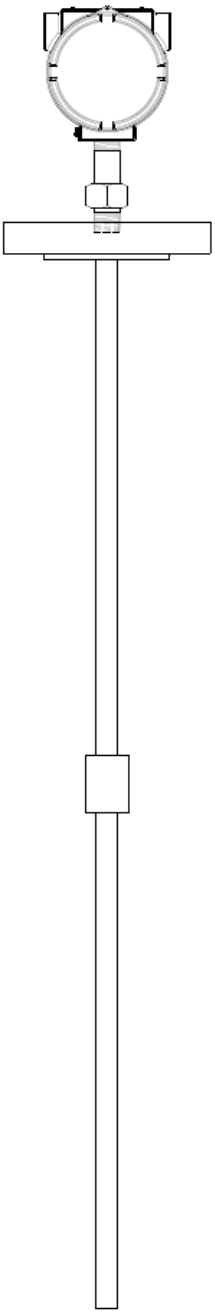
Sensor Length
Up to 240” or 610cm

Housing style
Aluminum housing, FM approved, NEMA 4X, IS, CI, I, II, III/1/ABCDEFG/T4

Aluminum housing, FM approved, XP/1/CBCD/T6, DIP/ II/1/EFG/TC3

Each available with stainless steel cover and/or window cover to view digital indicator

Power source
24 VDC loop power



WFR Options

Resolution
5mm, 10mm, 15mm, 18mm, or 48 mm (16mm, 20mm for plastic units)

Unit of measure
Imperial or Metric

Sensor Length
Up to 236” or 600cm

Housing style
Aluminum housing, FM approved, NEMA 4X, IS, CI, I, II, III/1/ABCDEFG/T4

Process Connection
NPT, ANSI Flange, Tri-clamp

Power source
24 VDC loop power

Material
Offered in 316L, 316ss, Hastelloy C, B, Titanium, PVC, PP, PTFE, PVDF, 316 with 3A approval

Gayesco-WIKA USA
229 Beltway Green Boulevard
Pasadena, Texas 77503
Tel. +1 713 475 0022
Fax +1 713 475 0011
info@wikahouston.com
www.wika.com

Appendix

Type code - WFR

1 Transmitter style

SF	Standard transmitter with float (temperature rating 100°F - 300°F)	**HD**	High temperature transmitter with dual float (temperature rating 100°F to 480°F) Digital indicator not available on dual float models
DF	Standard transmitter with dual float (temperature rating 100°F to 300°F) digital indicator not available on dual float models	**SS**	Sanitary transmitter with float (temperature rating -300°F to 480°F)
HS	High temperature transmitter with float (temperature rating 100°F to 480°F)	**PF**	Plastic transmitter with float (temperature rating 0°F to 212°F depending on material) Plastic transmitters offered with resolutions of 12.7mm or 20mm only

2 Sensor tube diameter

12	12mm (.48”)	**18**	18mm (.70”)
14	14mm (.55”)		

3 Wetted parts

S	316 Stainless steel	**T**	Titanium
L	316L Stainless steel	**V**	Hard polyvinylchloride (PVC) (plastic only, 0°F to 140°F)
A	316L Stainless steel (polished to 3A requirements)	**P**	Polypropylene (PP) (plastic only, 0°F to 175°F)
C	Hastelloy C	**E**	Teflon (PTFE) (plastic only, 0°F to 212°F)
B	Hastelloy B	**K**	Kynar (PVDF) (plastic only, 0°F to 175°F)

4 Resolution

A	5mm (.19”) available for tube diameters 18 and 48 only	**C**	15mm (.59”) available for all tube diameters HS transmitters 12 and 14
B	10mm (.39”) available for tube diameters 18, 48, and HS transmitters 14, 18 only	**D**	18mm (.71”) available for all tube diameters

5 Units of measure

I	Imperial	**M**	Metric

6 Sensor length

--	Dimension in inches or millimeters. Example: 44” = 0044	Up to 120” for 12mm, 14mm, 16mm and 18mm (sanitary only) 200” for 16mm plastic, 240” for 18mm and 480” for 48mm sensor tubes

7 Connection size and type

						Sanitary Sizes			
F10	1.0” ANSI flange	**F40**	4.0” ANSI flange	**N10**	1.0” NPT	**10**	1.0” Tri-clamp	**40**	4.0” Tri-clamp
F15	1.5” ANSI flange	**F50**	5.0” ANSI flange	**N15**	1.5” NPT	**15**	1.5” Tri-clamp	**50**	5.0” Tri-clamp
F20	2.0” ANSI flange	**F60**	6.0” ANSI flange	**N20**	2.0” NPT	**20**	2.0” Tri-clamp	**60**	6.0” Tri-clamp
F25	2.5” ANSI flange	**N05**	1/2” NPT	**NAD**	NPT Adjustable fitting (size varies)	**25**	2.5” Tri-clamp	**AD**	3/4” NPT adjustable fitting with polished float guide tube
F30	3.0” ANSI flange	**N75**	3/4” NPT			**30**	3.0” Tri-clamp		

8 Connection rating

				Sanitary Sizes
A	150# ANSI	**D**	NPT 1,000 psi	
B	300# ANSI	**S**	Sanitary tri-clamp 275 psi	
C	600# ANSI	**N**	Sanitary NPT adjustable fitting 275 psi	

9 Electronics

0	Remote electronics, terminal block only
1	24 VDC loop powered transmitter
2	24 VDC loop powered transmitter with integral LCD indicator in explosion proof enclosure

Note: Choice 2 requires choosing housing option AWX or SWX. Choice 0 does not require housing.

10 Housing

A4X	Aluminum housing FM approved, NEMA 4X, IS, CI, I, II, III/1/ ABCDEFG/T4	**AWX**	Same as ABX but with window cover to view digital indicator
ABX	Aluminum housing FM approved, XP/I/1/BCD/T6 DIP/II/EFG/T3C	**SBX**	Same as ABX but stainless steel construction
		SWX	Same as SBX but with window cover to view digital indicator

Ordering example

1	-	2	-	3	-	4	-	5	-	6	-	7	-	8	-	9	-	10
Transmitter style		Sensor tube diameter		Wetted parts		Resolution		Units of measure		Sensor length		Connection size and type		Connection rating		Electronics		Housing

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www.wika.com

Appendix

Type code - WIR

1	**Resolution**			
	05	5mm (.19”)		
	10	10mm (.39”)		
	15	15mm (.59”)		
	18	18mm (.79”)		
2	**Units of measure**			
	I	Imperial	**M**	Metric
3	**Sensor length**			
	--	Dimension in inches or millimeters. Example: 44” = 0044		
4	**Housing**			
	A4X	Aluminum housing FM approved, NEMA 4X, IS, CI, I, II, III/1/ ABCDEFG/T4	**AWX**	Same as ABX but with window cover to view digital indicator
	ABX	Aluminum housing FM approved, XP/I/1/BCD/T6 DIP/II/EFG/T3C	**SBX**	Same as ABX but stainless steel construction
			SWX	Same as SBX but with window cover to view digital indicator

Ordering example

1	-	2	-	3	-	4
Resolution		Units of measure		Sensor length		Housing

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