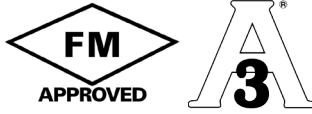


Level Transmitters Model WIR / WFR

WIKA datasheet 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//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 48mm (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

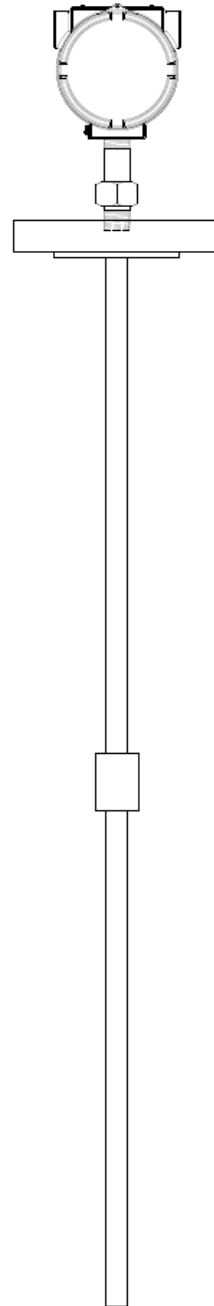
NPT, ANSI Flange, Tri-clamp

Power source

24 VDC loop power

Material

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



The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.



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										
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				<i>Note: Choice 2 requires choosing housing option AWX or SWX. Choice 0 does not require housing.</i>									
	1	24 VDC loop powered transmitter													
	2	24 VDC loop powered transmitter with integral LCD indicator in explosion proof enclosure													
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/II/1/BCD/T6 DIP/III/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

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/II/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

