

## WMI Magnetic Level Indicators Model WMI

WIKA datasheet WMI

### Application

WMI Series Magnetic Level Indicators 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
- Pulp and paper
- Food and beverage
- Gas plants
- Pharmaceutical

### Features

- The WMI Series Magnetic Level Indicators can easily be combined with our WLC series chamber for redundant level measurement.
- Temperature ranges from -320°F to 1,000°F or -195°C to 537°C
- Pressures from full vacuum to 5,000 psi or 344 bar
- Specific gravities as low as 0.35
- Measuring ranges from 6" to 20' standard, longer lengths available
- Dependable indicator with bold scale for ease in reading from 200'
- Interface capability
- Floats built per application provides better indicator accuracy
- Dependable level indication for years with little to no maintenance required
- Optional accessories include:
  - Magnetostrictive transmitter
  - Reed chain transmitter
  - Dry contact switch
  - Reed switch
  - Built in thermocouple or RTD
  - WIKA pressure gauges



### Specifications

#### Materials of Construction

304/L, 316/L, 317, 321, 347 SS, Hastelloy B or C, Alloy 20, Inconel 625, 254 SMO, PVC, Teflon

#### Process Connections

ANSI flanges, male or female threaded, O-let, weld ends

#### Connection Sizes

From 1/2" to 8" standard

#### Available Outlets

Extruded, saddled or welded T's

#### Vent and Drain Options

Flat caps, dome caps, weld neck or slip-on flanges, weld ends, male or female threaded, reducing flanges, valves per specification

#### Indicator

Red and white / yellow and black flags - ruler in feet/inches, metric, %, or special

#### Additional Options

High temperature insulation, cryogenic insulation, steam tracing, electrical heat tracing, reinforced flange supports, liquid gas chamber construction

## Options

**Chamber / Flange Rating**  
From 150# to 2500#

**Unit of Measure**  
Imperial or Metric

**Indicator Length**  
6" to 20' or more

**Center to Center Length**  
Similar or different from indicator  
Upper or lower mounting

**Body Material**  
Stainless with Stainless flange  
or carbon steel flange, Hastelloy,  
Alloy 20, Inconel, PVC, Teflon  
and more

**Side Connection Type**

Flange:

- Weld neck w/raised face
- Slip on w/raised face
- Weld neck RTJ
- Lap joint

O-let:

- Soc-o-let
- Thread-o-let
- Weld-o-let

Various:

- Threaded coupling
- Socket weld coupling
- Socket weld nipple
- Threaded nipple
- Butt weld connection
- Other (specify)

**Side Connection Size**

Ranges from no connection, 1/2" to  
8" or more

**Outlet type**

Extruded, O-let, saddled or welded-T

**Vent and Drain Size**

Ranges from no vent or drain con-  
nection, 1/2" to 8" or more

**Vent or Drain Connections**

Flat or Dome Cap Options:

- NPT Hex Plug
- Threaded coupling
- Socket weld coupling
- Nipple for butt welding
- Threaded male nipple
- Welded flange
- Valve

**Weld Neck or Slip-On Flange**

Options:

- No mating flange for direct  
process connection
- Mating flange with NPT hex  
plug
- Mating flange with socket  
weld coupling
- Mating flange with nipple for  
butt welding
- Mating flange with threaded  
male nipple
- Mating flange with welded  
flange
- Mating flange with valve

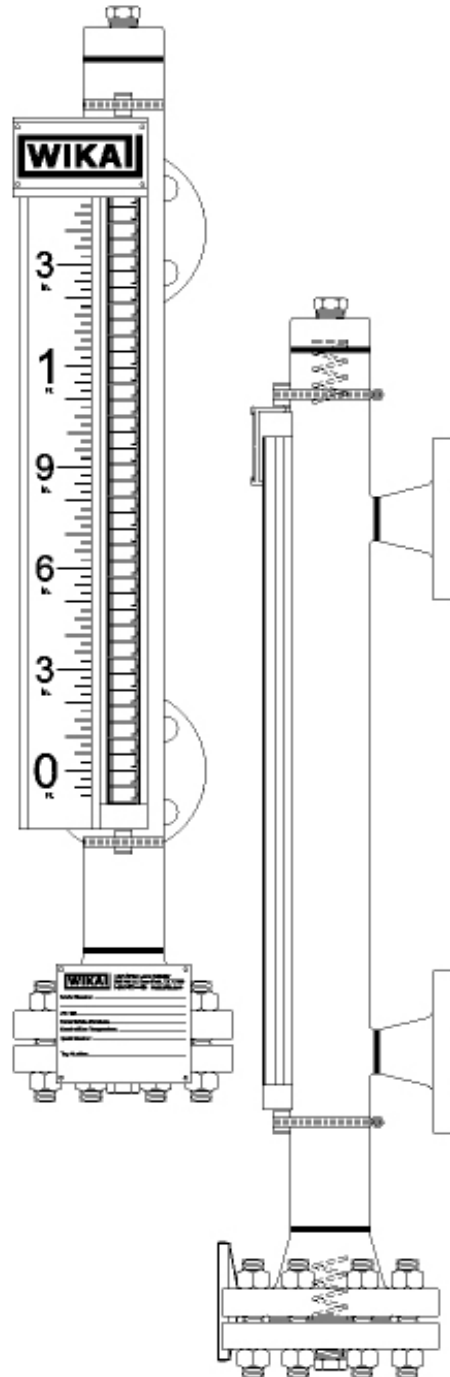
Other connections options can be  
engineered per application

**Indicator**

standard with imperial scale, metric  
scale, percentage or other. Cryo-  
genic available.

**Options**

Chamber and flange insulations from  
-300°F to 999°F. Steam tracing, heat  
tracing and gussets for flange sup-  
port also available



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 - WMI

<b>1</b>	<b>Chamber Rating</b>					
	<b>150</b>	150#	<b>600</b>	600#	<b>15C</b>	1500#
	<b>300</b>	300#	<b>900</b>	900#	<b>25C</b>	2500#
<b>2</b>	<b>Unit of Measure</b>					
	<b>I</b>	Imperial	<b>M</b>	Metric		
<b>3</b>	<b>Indicator Length</b>					
	<b>XXXX</b>	i.e. 0044 = 44" (I) or 44mm (M)				
<b>4</b>	<b>Center to Center Length</b>					
	<b>C</b>	Similar to indicator	<b>N</b>	Differing from indicator (specify in description)	<b>U</b>	Upper mount
					<b>L</b>	Lower mount
<b>5</b>	<b>Chamber Material</b>					
	<b>304M</b>	304/304L Stainless steel w/matching flange material	<b>321S</b>	321 Stainless steel	<b>HASC</b>	Hastelloy C
	<b>304C</b>	304/304L Stainless steel w/carbon steel flange material	<b>317S</b>	317 Stainless steel	<b>HASB</b>	Hastelloy B
	<b>316C</b>	316/316L Stainless steel w/carbon steel flange material	<b>347S</b>	347 Stainless steel	<b>ALL2</b>	Alloy 20
	<b>316M</b>	316/316L Stainless steel w/matching flange material	<b>A254</b>	Alloy 254	<b>INC6</b>	Inconel 625
<b>6</b>	<b>Side Connection Type (Qty.) -Choose one code</b>					
	Flange Options: Specify Qty. in ____		O-let Options: Specify Qty. in ____		Various Options: Specify Qty. in ____	
	<b>WR_</b>	Weld neck raised face	<b>SL_</b>	Soc-o-let	<b>TC_</b>	Threaded coupling
	<b>SR_</b>	Slip on raised face	<b>TL_</b>	Thread-o-let	<b>SC_</b>	Socket weld coupling
	<b>WJ_</b>	Weld neck RTJ	<b>WL_</b>	Weld-o-let	<b>SN_</b>	Socket weld nipple
	<b>LJ_</b>	Lap joint			<b>TN_</b>	Threaded nipple
					<b>BW_</b>	Butt weld connection
					<b>OT_</b>	Other, specify in description or for D9 (Dual chamber with 90° connection option)
					<b>NSC</b>	No side connection
<b>7</b>	<b>Side Connection Size</b>					
	<b>00</b>	No side connection	<b>10</b>	1 inch	<b>30</b>	3 inches
	<b>05</b>	.5 inch	<b>15</b>	1.5 inches	<b>40</b>	4 inches
	<b>75</b>	.75 inches	<b>20</b>	2 inches	<b>60</b>	6 inches
					<b>80</b>	8 inches
					<b>OT</b>	Other, specify in description
<b>8</b>	<b>Outlet Type</b>					
	<b>E</b>	Extruded	<b>S</b>	Saddled	<b>W</b>	O-let
					<b>T</b>	Welded-T
<b>9</b>	<b>Vent Connection -Choose one</b>					
	Flat cap (FC) options:		Weld neck flange (WNF) options:		Dome cap (DC) options:	
	<b>FP</b>	FC, with drain, plug	<b>WP</b>	WNF, drain, plug in mating flange	<b>DP</b>	DC, with drain, plug
	<b>FT</b>	FC, threaded coupling	<b>WT</b>	Threaded coupling on mating flange to WNF	<b>DT</b>	DC, threaded coupling
	<b>FC</b>	FC, socket-weld coupling	<b>WC</b>	Socket-weld fitting on mating flange to WNF	<b>DC</b>	DC, socket-weld coupling
	<b>FS</b>	FC, nipple for socket welding	<b>WS</b>	Nipple for socket-welding on mating flange for WNF	<b>DS</b>	DC, nipple for socket welding
	<b>FW</b>	FC, nipple for butt welsing	<b>WW</b>	Nipple for butt-welding on mating flange for WNF	<b>DW</b>	DC, nipple for butt welsing
	<b>FN</b>	FC, threaded male nipple	<b>WN</b>	Threaded male nipple on mating flange for WNF	<b>DN</b>	DC, threaded male nipple
	<b>FF</b>	FC, welded flange	<b>WF</b>	WNF with mating reducing flange	<b>DF</b>	DC, welded flange
	<b>FV</b>	FC, with valve	<b>WV</b>	WNF with mating flange and valve	<b>DV</b>	DC, with valve
	<b>FB</b>	FC, No vent or drain	<b>WO</b>	WNF no mating flange	<b>DB</b>	DC, No vent or drain
			<b>WB</b>	WNF, No vent or drain in mating flange		
	Slip-on flange (SOF) options:					
	<b>SB</b>	SOF, No vent or drain in mating flange			<b>OT</b>	Other, specify in description
	<b>SP</b>	SOF, drain, plug in mating flange				
	<b>ST</b>	Threaded coupling on mating flange to SOF				
	<b>SC</b>	Socket-weld fitting on mating flange to SOF				
	<b>SS</b>	Nipple for socket-welding on mating flange for SOF				
	<b>SW</b>	Nipple for butt-welding on mating flange for SOF				
	<b>SN</b>	Threaded male nipple on mating flange for SOF				
	<b>SF</b>	SOF with mating reducing flange				
	<b>SV</b>	SOF with mating flange and valve				
	<b>SO</b>	SOF no mating flange				

<b>10</b>	<b>Drain Connection -Choose one</b>					
	Weld neck flange (WNF) options:		Flat cap (FC) options:		Dome cap (DC) options:	
<b>WP</b>	WNF, drain, plug in mating flange	<b>FP</b>	FC, with drain, plug	<b>DP</b>	DC, with drain, plug	
<b>WT</b>	Threaded coupling on mating flange to WNF	<b>FT</b>	FC, threaded coupling	<b>DT</b>	DC, threaded coupling	
<b>WC</b>	Socket-weld fitting on mating flange to WNF	<b>FC</b>	FC, socket-weld coupling	<b>DC</b>	DC, socket-weld coupling	
<b>WS</b>	Nipple for socket-welding on mating flange for WNF	<b>FS</b>	FC, nipple for socket welding	<b>DS</b>	DC, nipple for socket welding	
<b>WW</b>	Nipple for butt-welding on mating flange for WNF	<b>FW</b>	FC, nipple for butt welsing	<b>DW</b>	DC, nipple for butt welsing	
<b>WN</b>	Threaded male nipple on mating flange for WNF	<b>FN</b>	FC, threaded male nipple	<b>DN</b>	DC, threaded male nipple	
<b>WF</b>	WNF with mating reducing flange	<b>FF</b>	FC, welded flange	<b>DF</b>	DC, welded flange	
<b>WV</b>	WNF with mating flange and valve	<b>FV</b>	FC, with valve	<b>DV</b>	DC, with valve	
<b>WO</b>	WNF no mating flange	<b>FB</b>	FC, No vent or drain	<b>DB</b>	DC, No vent or drain	
<b>WB</b>	WNF, No vent or drain in mating flange					
	Slip-on flange (SOF) options:					
<b>SB</b>	SOF, No vent or drain in mating flange		<b>OT</b>	Other, specify in description		
<b>SP</b>	SOF, drain, plug in mating flange					
<b>ST</b>	Threaded coupling on mating flange to SOF					
<b>SC</b>	Socket-weld fitting on mating flange to SOF					
<b>SS</b>	Nipple for socket-welding on mating flange for SOF					
<b>SW</b>	Nipple for butt-welding on mating flange for SOF					
<b>SN</b>	Threaded male nipple on mating flange for SOF					
<b>SF</b>	SOF with mating reducing flange					
<b>SV</b>	SOF with mating flange and valve					
<b>SO</b>	SOF no mating flange					

<b>11</b>	<b>Vent and Drain Size</b>					
<b>05</b>	.5 inch V/D Connection	<b>20</b>	2 inches	<b>60</b>	6 inches	
<b>75</b>	.75 inch V/D Connection	<b>25</b>	2.5 inches	<b>80</b>	8 inches	
<b>10</b>	1 inch	<b>30</b>	3 inches	<b>OT</b>	Other, specify in description or for D9 (Dual chamber with 90° connection option)	
<b>15</b>	1.5 inches	<b>40</b>	4 inches	<b>00</b>	No V/D connection	

<b>12</b>	<b>Indicator</b>					
				Cryogenic:		
<b>IRI</b>	Bar graph indicator ruler -Imperial	<b>ICI</b>	Bar graph Cyro ruler -Imperial			
<b>IRM</b>	Bar graph indicator ruler -Metric	<b>ICM</b>	Bar graph Cyro ruler -Metric			
<b>IRP</b>	Bar graph indicator ruler -Percentage	<b>ICP</b>	Bar graph Cyro ruler -Percentage			
<b>IRO</b>	Bar graph indicator, no ruler	<b>ICO</b>	Bar graph Cyro -No ruler			
<b>IRS</b>	Bar graph indicator -Special	<b>ICS</b>	Bar graph Cyro -Special			

<b>13</b>	<b>Options</b>					
<b>T1C</b>	Chamber insulation for temps between 250° and 499° F	<b>FI2</b>	Cryogenic insulation for temps down to -200° F			
<b>T1F</b>	Chamber and flange insulation for temps between 250° and 499° F	<b>FI3</b>	Cryogenic insulation for temps down to -300° F			
<b>T2C</b>	Chamber insulation for temps between 500° and 999° F	<b>STT</b>	Steam tracing			
<b>T2F</b>	Chamber and flange insulation for temps between 500° and 900° F	<b>HTT</b>	Heat tracing			
<b>FI1</b>	Cryogenic insulation for temps down to -100° F	<b>FLS</b>	Gussets for flange support			

**Ordering example**



**Note: The following process conditions must be included with the model code in order for WIKA to provide you a quote.**

**Specific Gravity:** \_\_\_\_\_ **Operating Temperature:** \_\_\_\_\_ **Operating Pressure:** \_\_\_\_\_