

# Industrial Glass Thermometers

## Type TI.701/TI.901

- **Retro-Fits Existing Thread Sizes**
- **Easy-to-Read Face**
- **HVAC/R Applications**



WIKA's TI.701 (7") and TI.901(9") industrial glass thermometers offer quick, easy-to-read temperature measurement for tough applications. Glass/mineral reinforced GE Valox® housings and spring mounted windows contribute to impact, shock and vibration resistance. WIKA industrial glass thermometers are the ideal choice for process piping, HVAC/R applications, diesel engines and compressors.

### Standard Features

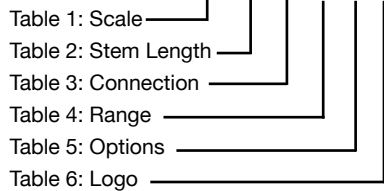
- **Case:** V-shaped case parts are molded of rugged GE Valox® 735 polyester, finished in textured black. Heavy glass window is spring-mounted to prevent rattles.
- **Stem:** To ensure sensitivity, bulb chambers are precision ground aluminum, tapered for a close-tolerance metal-to-metal contact with matching tapered socket. Graphite is used as a conductor between bulb chamber and glass tube.
- **Locking Device:** Independent adjustable case locknut and angle adjusting screw provide 360° positioning of case and stem.
- **Adjustable Joint:** Matching GE Valox® joint completely encloses capillary for thermal system protection.
- **Tube and Capillary:** Blue liquid (non-mercury fill) standard; magnifying lens tube is silicone shock-mounted to increase service life. Guaranteed accurate to within  $\pm 1\%$  of scale range.
- **Scale:** Permanently baked-on, bold black graduations are printed on white-coated aluminum. No mounting screws obscure scale. Scale adjusts through locking device at top of instrument.
- **Accuracy:**  $\pm 1\%$  of full scale range

**Datasheets: [TI.901\\_TI.701](#)**

# Ordering Industrial Glass Thermometers

## Type TI.701, TI.901

Sample Part No: **901 06 02 207 X WI**



Range Code	°F	°F Scale Division	Range Code	°C	°C Scale Division
201	-40/110	2	101	-40/50	1
204	0/120	1	104	0/100	1
205	0/160	2	105	0/160	2
206	30/180	2			
207	30/240	2			
208	30/300	5			
*210	50/550	5			

\*Requires aluminum case

### Factory Stock

Part Number	Description
<b>9010300004WI</b>	9" scale, 3½" stem, 0/120°F & °C
<b>9010300007WI</b>	9" scale, 3½" stem, 30/240°F & °C
<b>9010300204WI</b>	9" scale, 3½" stem, 0/120°F
<b>9010300205WI</b>	9" scale, 3½" stem, 0/160°F
<b>9010300206WI</b>	9" scale, 3½" stem, 30/180°F
<b>9010300207WI</b>	9" scale, 3½" stem, 30/240°F
<b>9010301204WI</b>	9" scale, 3½" stem, with ¾" NPT brass thermowell 0/120°F
<b>9010301207WI</b>	9" scale, 3½" stem, with ¾" NPT brass thermowell 30/240°F
<b>9010300005WI</b>	9" scale, 3½" stem, 0/160°F & °C
<b>9010600204WI</b>	9" scale, 6" stem, 0/120°F
<b>9010600208WI</b>	9" scale, 6" stem, 30/300°F
<b>9010601208WI</b>	9" scale, 6" stem, with ¾" NPT brass thermowell 30/300°F

NOTE: Stock items shown in **bold, blue** print.

**Table 1- Scale**

Code	Description
701	7" scale, swivel nut connection
901	9" scale, swivel nut connection
702	7" scale, perforated stem for duct flange
902	9" scale, perforated stem for duct flange

**Table 2- Stem Length**

Code	Description
03	3½" stem
06	6" stem
09	9" stem
12	12" stem

**Table 3- Connection**

Code	Description
00	Swivel nut connection (no thermowell)
01	¾" NPT brass, thermowell
02	¾" NPT brass with lagging extension
03	¾" NPT brass union hub
04	Duct flange, reversible with or without lagging extension

**Table 4- Ranges**

Range Code	°F	°C	F Scale Division °	C Scale Division °
001	-40/110	-40/43	2	1
004	0/120	-17/49	1	1
005	0/160	-15/70	2	1
006	30/180	0/80	2	1
007	30/240	0/115	2	1
008	30/300	0/150	5	2
*010	50/550	10/290	5	5

\*Requires aluminum case

**Table 5- Options**

Code	Description
P	7" plastic window
P	9" plastic window
A	7" or 9" aluminum case (required above 300°F or 160°C)

Note: "Blue" Liquid Fill is standard (550°F max. scale)

**Table 6 - Logo**

Code	Description
WI	WIKAL

# Ordering Industrial Glass Thermometers (cont'd)

## Type TI.701, TI.901

### Custom (Non-Stock) Industrial Glass Thermometers

#### T-85 Thermowell Conversion Kit

Part Number

TA800-0T85

This conversion kit offers an easy, inexpensive way to install a WIKA bimetal thermometer in a glass industrial thermometer's thermowell. For more information, please consult factory.

#### 7" & 9" Scale Industrial Thermometers with Swivel Nut Connection (no thermowell)

Model Number	Connection	Range	Logo	Description
70103	00	See chart	WI	7" scale, 3½" stem
70106	00	See chart	WI	7" scale, 6" stem
70109	00	See chart	WI	7" scale, 9" stem
70112	00	See chart	WI	7" scale, 12" stem
90103	00	See chart	WI	9" scale, 3½" stem
90106	00	See chart	WI	9" scale, 6" stem
90109	00	See chart	WI	9" scale, 9" stem
90112	00	See chart	WI	9" scale, 12" stem

#### 7" & 9" Scale Industrial Thermometers Complete with ¼ NPT Brass Thermowell, with or without Lagging Extension

Model Number	Connection	Range	Logo	Description
70103	01	See chart	WI	7" scale, 3½" stem with thermowell
70106	01 or 02	See chart	WI	7" scale, 6" stem with thermowell (01) or well with lagging extension (02)
70109	01 or 02	See chart	WI	7" scale, 9" stem with thermowell (01) or well with lagging extension (02)
70112	01 or 02	See chart	WI	7" scale, 12" stem with thermowell (01) or well with lagging extension (02)
90103	01	See chart	WI	9" scale, 3½" stem with thermowell
90106	01 or 02	See chart	WI	9" scale, 6" stem with thermowell (01) or well with lagging extension (02)
90109	01 or 02	See chart	WI	9" scale, 9" stem with thermowell (01) or well with lagging extension (02)
90112	01 or 02	See chart	WI	9" scale, 12" stem with thermowell (01) or well with lagging extension (02)

#### 7" & 9" Scale Industrial Thermometers Complete with Flange

Model Number	Connection	Range	Logo	Description
70203	04	See chart	WI	7" scale, 3½" stem with reversible duct flange (with or without lagging ext.)
70206	04	See chart	WI	7" scale, 6" stem with reversible duct flange (with or without lagging ext.)
70209	04	See chart	WI	7" scale, 9" stem with reversible duct flange (with or without lagging ext.)
70212	04	See chart	WI	7" scale, 12" stem with reversible duct flange (with or without lagging ext.)
90203	04	See chart	WI	9" scale, 3½" stem with reversible duct flange (with or without lagging ext.)
90206	04	See chart	WI	9" scale, 6" stem with reversible duct flange (with or without lagging ext.)
90209	04	See chart	WI	9" scale, 9" stem with reversible duct flange (with or without lagging ext.)
90212	04	See chart	WI	9" scale, 12" stem with reversible duct flange (with or without lagging ext.)

#### Single Scale Ranges

Range Code	°F	°F Scale Division	Range Code	°C	°C Scale Division
201	-40/110	2	101	-40/50	1
204	0/120	1	104	0/100	1
205	0/160	2	105	0/160	2
206	30/180	2			
207	30/240	2			
208	30/300	5			
*210	50/550	5			

\*Requires aluminum case

#### Dual Scale Ranges

Range Code	°F	°C	°F Scale Division	°C Scale Division
001	-40/110	-40/43	2	1
004	0/120	-17/49	1	1
005	0/160	-15/70	2	1
006	30/180	0/80	2	1
007	30/240	0/115	2	1
008	30/300	0/150	5	2
*010	50/550	10/290	5	5

\*Requires aluminum case