

# Vapor Actuated Thermometers Type TI.V20/TI.V25, TI.V35/TI.V45

- ■Remote Reading
- ■Highly Accurate
- ■Refrigeration Applications



WIKA's vapor actuated thermometers are highly accurate and provide remote reading. They are available in U-clamp, front flange or back flange case configurations. WIKA's vapor actuated thermometers are well suited for refrigeration, solar heating, and water treatment applications.

# Standard Features

■Case: Stainless steel

■Accuracy: ±1 scale division

■Movement: Heavy duty brass, rotary type

■Ring: Snap-in O-ring

■Window: Glass or polycarbonate

■Pointer: Aluminum, adjustable, black finish

■Dial: Aluminum, white background, black graduations

■Bourdon Tube: Phosphor bronze, soldered to socket and tip

■Process Connection: Plain, union or thermowell

■Bulb: Copper or stainless steel

■Capillary: Copper- plain or with braid armor; stainless steel- plain; stainless steel or with stainless steel interlocking armor

Datasheets: TI.V20, TI.V25

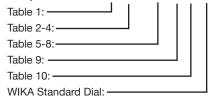
TI.V35, TI.V45





# **Ordering Vapor Actuated Thermometers**

# Sample Model No: V25 UB3 1690 05 06 WI



# Table 1 - Case Size

Code	Description
V20	2"
V25	21/2"
V35	31/2"
V45	41/2"

# Table 2 - Case Style

Code	Case Type	Material	Case Size	Case Conn.
F	Front flange	SS	2", 2.5"	В
U	U-clamp	SS	2", 2.5"	В
Q	U-clamp	SS	3.5"	В
В	Back flange	SS	3.5", 4.5"	B, L
R	Front flange, semi flush	SS	3.5", 4.5"	В

# **Table 3 - Case Connection**

Code	Description Case	Size	Case Type
В	Back connection	All	All
L	Lower connection	3.5", 4.5"	В

### **Table 4 - Case Front Window** Code Description Case Size Case Type 3 ΑII ΑII Lexan snap-in lens Glass lens w/ SS ring 2", 21/2" F, U 5 Glass lens w/ chrome plated brass ring 31/2" All 7 Glass lens w/ rubber ring 41/2" B, R 8 Glass lens w/ crimped SS ring, water proof 2", 21/2" U 9 Lexan threaded lens 2", 21/2" F, U, Q

### **ABBREVIATIONS**

N/C - there is no charge for this option





# **Table 5 - Thermal Systems**

Code	Bulb Type	Bulb Mat'l	Capillary Mat'l	Cap Protection
1	Plain	Copper	Copper	None
2	Plain	Copper	Copper	Cu. Braid
3	Plain	316 SS	316 SS	None
4	Union	Copper	Copper	None
5	Union	Copper	Copper	Cu. Braid
8	Union	316 SS	316 SS	Interlock Armor
9	Union	316 SS	316 SS	None

2	Plain	Copper	Copper	Cu. Braid
3	Plain	316 SS	316 SS	None
4	Union	Copper	Copper	None
5	Union	Copper	Copper	Cu. Braid
8	Union	316 SS	316 SS	Interlock Armor
9	Union	316 SS	316 SS	None
Table 6 - Bulb Selection (Use with codes 1, 2, & 3 Plain Bulb)				

Table 6 - Bulb Selection				
	Thermal System			
	No. 1 thru	3 above -	Plain bulb for	
	non-thre	aded proc	ess connection	
Code	Diameter Length Max. Sys. Length		Max. Sys. Length	
2	3/8"	3.4"	25 Feet	
3	3/8"	4.9"	50 Feet	
4	3/8"	7.9"	99 Feet	
5	3/8"	9.4"	99 Feet	
6	3/8"	2.5"	5 Feet	

Table 6 - Bulb Selection (Use with codes 4, 5, 8 & 9 Union Bulb)

Thermal System			
	No. 4 throug	h 9 above	- Bulb with union for
	threaded	d process	connection
Code	Diameter	Length	Max. Sys. Length
1	<sup>7</sup> /16"	2.5"	10 Feet
2	<sup>7</sup> /16"	3.4"	25 Feet
3 (1)	<sup>7</sup> /16"	5.4	50 Feet
4	<sup>7</sup> /16"	7.4"	99 Feet
5	<sup>7</sup> /16"	9.4"	99 Feet

 $<sup>^{\</sup>rm (1)}$  Required for lagging extension thermowell, see Table 7

# **Table 7 - Process Connection Fitting**

Code	Description
1	Union ½" NPT
2	Union ¾" NPT
3	Thermowell ½" NPT
4	Thermowell ¾" NPT
5	Thermowell ½" NPT with 2" lag extension (2)
6	Thermowell ¾" NPT with 2" lag extension (2)
7	Aluminum air duct flange (union only)
9	Plain bulb (always select with "plain bulb" - table 5; codes 1, 2, 3)

<sup>(2)</sup> Can only be used with No. 3 bulb

Note: Available combinations for Thermal System (Table 5) and Bulb Selection (Table 6): Plain: 12, 13, 14, 15, 16, 22, 23,

24, 25, 26, 32, 33, 34, 35, 36

Union: 41, 42, 43, 44, 45, 51, 52, 53, 54, 55, 81, 82, 83, 84, 85, 91, 92, 93, 94, 95

Also must consider Capillary Length (Table 9).

Code	Description
1	Brass
2	304 SS
3	316 SS
5	Aluminum (air duct flange only)
0	None (plain bulb only)

(always select with "plain bulb" - table 5; codes 1, 2, 3)

Table 8 - Process Connection Fitting

# Table 9 - Capillary Length

Code	Description
05	five feet
10	ten feet
15	fifteen feet
20	twenty feet
30	thirty feet
50	fifty feet
80	eighty feet

Capillary can be configured to any whole foot, 99' and below. I.E. - 08 = 8' capillary

Table 10 - Range		
Code	Description	
01	-40/60 F&C	
02	-40/110 F&C	
03	-20/100 F&C	
04	0/150 F&C	
05	0/180 F&C	
06	20/220 F&C	
07	40/240 F&C	
08	30/300 F&C	
09	100/350 F&C	

# Table 11 - Logo

Code	Description
WI	WIKA
BL	Blank

**ABBREVIATIONS** 

N/C - there is no charge for this option