WEISS INSTRUMENTS

Plumbing

Heating

Cooling

Temperature, Pressure Instruments





Throughout the 20th century, the Weiss name has been synonymous with quality and reliability in instrumentation. Some of the products we have manufactured for more than 135 years are proudly illustrated in this catalog, dedicated to your requirements in the plumbing, heating and cooling industry. Recent products such as our line of Vari-angle Digital Thermometers, fast becoming the Contractor choice, are also available to you.

Whether you require instruments for temperature or pressure monitoring, the Weiss line offers a choice. Our commitment to quality extends well beyond the products we provide. Each day we strive to offer our customers responsive service and reliable deliveries, qualities so necessary in today's business climate. Weiss understands the trends of today's market and we look forward to proving our ability to react to the daily challenge.

Old World Craftsmanship . . . NEW WORLD TECHNOLOGY Since 1882

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INDUSTRIAL GLASS THERMOMETERS

The Weiss 7" and 9" Vari-angle® is molded of GE Valox® polyester, 40% glass/mineral reinforced. This particular material has excellent strength, impact and stiffness properties which makes it perfect for the toughest applications. Some of the uses are process piping, tanks, pipelines in building construction, boilers and air ducts. The Vari-angle is a versatile thermometer that can be adjusted easily for optimum readability. Furnished in ranges up to and including 300°F.

® Vari-angle is a registered trademark of Weiss Instruments, Inc.

FILL: Weiss "Blue Ribbon Liquid".

CASE: Modern V-shape design with parts molded of GE Valox polester, in black textured finish. Heavy glass protected front firmly secured against rattles by spring action.

STEM: For 31/2" stems only and ranges up to and including 300°F, the stem material is a precision die cast Zamac alloy. For ranges above 300°F, bulb chamber is a precision machined aluminum alloy with copper plated steel stem extension. For Separable Socket connections only. ® Valox is a registered trademark of the General Electric Co.



i-angle AIR DUCT THERMOMETERS

9" SCALE	CAT NO.
31/2" STEM	9VD35
6" STEM	9VD6
9" STEM	9VD9
12" STEM	9VD12

ADD RANGE CODE FROM RANGE TABLE LISTING. EX: 9VD6-180 (RANGE 30-180F) ABOVE CAT. NUMBERS INCLUDE A REV-ERSIBLE DUCT MOUNTING FLANGE.

angle INDUSTRIAL THERMOMETERS

7" SCALE	CAT NO.
31/2" STEM	7VU35
6" STEM	7VU6
9" STEM	7VU9
12" STEM	7VU12

9" SCALE	CAT NO.
31/2" STEM	9VU35
6" STEM	9VU6
9" STEM	9VU9
12" STEM	9VU12
1	

ADD RANGE CODE FROM RANGE TABLE LISTING. EX: 9VU35-240 (RANGE 30-240F) ABOVE CATALOG NUMBERS DO NOT INCLUDE SOCKETS - ORDER SEPARATELY FROM THERMOWELL TABLE LISTING.

ri-angle ALUMINUM CASE IND. THERMOMETERS

9" SCALE	CAT NO.
31/2" STEM	A9VU35
6" STEM	A9VU6
9" STEM	A9VU9
12" STEM	A9VU12

ADD RANGE CODE FROM RANGE TABLE LISTING.

°F RANGES	SCALE DIV.	RANGE CODE
40-0-110°F	2°	110
0-120°F	1°	120
0-160°F	2°	160
30-180°F	2°	180
30-240°F	2°	240
30-300°F	5°	300
50-400°F	5°	400
50-550°F	5°	550

All Ranges 400°F (200°C) and higher are furnished in Aluminum Case.

THERMOWELLS AND ACCESSORIES						
STEM LENGTH	BRASS CAT NO.	304SS CAT NO.	316SS CAT NO.	NPT	INSERTION (U)	LAG EXTENSION (L)
3 1/2"	E35-75BS	E35-75SS	E35-75316SS	3/4	2 1/2	_
6"	ER6-75BS	ER6-75SS	ER6-75316SS	3/4	5	_
9"	ER9-75BS	ER9-75SS	ER9-75316SS	3/4	8	_
12"	ER12-75BS	ER12-75SS	ER12-75316SS	3/4	11	_
31/2"	ESS35-50BS	ESS35-50SS	ESS35-50316SS	1/2	2	1
31/2"	ESS35-75BS	ESS35-75SS	ESS35-75316SS	3/4	2	1
6"	EN6-75BS	EN6-75SS	EN6-75316SS	3/4	2 1/2	2 1/2
9"	ENS9-75BS	ENS9-75SS	ENS9-75316SS	3/4	5 1/2	2 1/2
12"	ENS12-75BS	ENS12-75SS	ENS12-75316SS	3/4	8 1/2	2 1/2
Catalog No.	Catalog No. FCC - Brass Cap and Chain Assembly for Test Well					

Catalog No. ECC - Brass Cap and Chain Assembly for Test Well

SIX INCH INDUSTRIAL THERMOMETERS



The Weiss 6" Navy Class Thermometer is compactly designed, ruggedly constructed and has excellent readability. The blue-reading liquid-in-glass tube maintains accuracy despite vibrations and shock.

This economical thermometer is built for general hydronic applications such as chilled and hot water lines and all small piping networks. It is especially adaptable to equipment operating under continuous vibrating conditions.

FILL: Weiss "Blue Ribbon Liquid".

CASE: Attractive modern design; V-shaped gray Valox case. Wide angle construction allows full scale width for easy reading.

STEM ASSEMBLY: Standard fittings of all brass construction which insures proper response to temperature changes. Standard dual threaded socket for 1/2" and 3/4" NPT. Meets all current military specifications (Army, Navy, Air Force).

NAVY CLASS THERMOWELLS

STRAIGHT FORM	CAT NO.	ANGLE FORM	CAT NO.
2" STEM	5SS2	2" STEM	5AS2
4" STEM	5SS4	4" STEM	5AS4

BRASS	304SS	316SS	STEM	INSERTION U
E13S-BS		E13S-316SS	2"	1 5/16"
E13L-BS		E13L-316SS	4"	3 5/16"

ADD RANGE CODE FROM RANGE TABLE LISTING. **EX:5AS2-240 (RANGE 30-240F)**ABOVE CATALOG NUMBERS **DO NOT INCLUDE SOCKETS** - ORDER SEPARATELY
FROM THERMOWELL TABLE LISTING.

THRIFT LINE THERMOMETERS



Same Features as Navy Class Thermometer except:

STEM & SOCKET ASSEMBLY: All brass stem. Removable socket secured to stem by set-screw. Socket standard in brass with 1/2" NPT.

STRAIGHT FORM	CAT NO. TL5S2
ANGLE FORM	CAT NO. TL5A2

ADD RANGE CODE FROM RANGE TABLE LISTING. EX: TL5S2-240 (RANGE 30-240F). ABOVE CATALOG NUMBERS DO NOT INCLUDE SOCKETS ORDER SEPARATELY FROM THERMOWELL TABLE LISTING.

THRIFT LINE THERMOWELLS

CAT NO.	NPT	INSERTION U
SF12-BS	1/2"	1 3/8"
SF34-BS	3/4"	1 3/8"

°F RANGES	SCALE DIV.	RANGE CODE
40-0-110°F	2°	110
20-120°F	2°	120
20-180°F	2°	180
30-240°F	2°	240

SIX INCH HOT & CHILLED WATER THERMOMETERS

The Weiss 6" Hot & Chilled Water Thermometer is our most economical offering in industrial glass thermometers. The unit features components of non-corrosive materials and its compact design and excellent readability makes the HW & CW Series ideal for a variety of general purpose applications. Typical applications include small pipe lines, residential and commercial boilers, solar heating systems.

SCALE LENGTH: 5 1/2"

SCALE: White coated aluminum with permanently baked black markings.

TUBE: Magnifying blue liquid.

CASE: Molded V-shaped GE Valox® in gray textured finish.

RANGE: Hot Water 40-260°F (2°div.) and 5-125°C (1°div.)

Chilled Water -40-110°F (2°div.) and -40-43°C (1°div.)

CONNECTION: Brass 1/2" NPT.

	HOT WATER	CHILLED WATER
STRAIGHT FORM	CAT NO. HW5S2	CAT NO. CW5S2
ANGLE FORM	CAT NO. HW5A2	CAT NO. CW5A2

COMPLETE WITH 1/2" NPT BRASS CONNECTION WITH 1-3/8" INSERTION.



HOT WATER BIMETAL DIAL THERMOMETERS

Weiss' most economical offering in the dial thermometers is ideal for a number of general heating applications including small pipelines. Units are furnished with 1/2" NPT brass removable socket or 3/4" sweat connection.

DESCRIPTION	DIAL SIZE	CAT. NO.	RANGE	FITTING
HOT WATER BIMETAL	21/2"	HWBM25	32-250 F&C	1/2" NPT
	4"	HWBM40	32-250 F&C	1/2" NPT
	21/2"	HWBM25S	32-250 F&C	3/4" SWEAT
	4"	HWBM40S	32-250 F&C	3/4" SWEAT



GENERAL PURPOSE THERMOMETERS

The instruments illustrated here are general purpose type. The group consists of bimetal dial, glass pocket clip and pocket digital thermometers.

DESCRIPTION	CAT. NO.	RANGE
DIAL THERMOMETERS		
POCKET DIAL	PT125	25-125F
POCKET DIAL	PT180	40-0-180F
POCKET DIAL	PT220	0-220F
GLASS THERMOMETERS		
POCKET GLASS	PLC120	30-0-120F
POCKET GLASS	PLC220	0-220F
DIGITAL THERMOMETERS		
POCKET DIGITAL AUTO OFF	DP300 DP300A	58-0-302F&C 58-0-302F&C
POCKET DIGITAL/WATER PROOF	DESOUA	30-U-3U2F&C



BIMETAL DIAL THERMOMETERS



Weiss offers a complete line of Commercial Bimetal Thermometers in 2", 3" and 5" dial sizes. All versions are hermetically sealed and silicone dampened for optimum performance in most industrial applications. A recalibration feature is standard on the 3" and 5" dial forms.

CASE: The entire case assembly is of Type 304 Stainless Steel. To insure a moisture proof unit, the heavy glass face is securely gasketed with the case and bezel assembly, hermetically sealed.

STEM ASSEMBLY: The stem and fixed thread connection is fabricated of stainless steel. All welded construction insures complete corrosion resistance.

With 2" dials the fixed thread is 1/4" NPT, 3" and 5" dials are 1/2" NPT.

MODEL 2BM - 2" Angle

CAT NO.	Stem Length*	NPT
2BM25	21/2"	1/4"
2BM4	4"	1/4"
2BM6	6"	1/4"
2BM9	9"	1/4"
2BM12	12"	1/4"

MODEL 3RBM, 3" Angle - 3RBMS, 3" Straight

CAT	Ю.	Stem Length*	NPT
3RBM25	3RBMS2	5 21/2"	1/2"
3RBM4	3RBMS4	4"	1/2"
3RBM6	3RBMS6	6"	1/2"
3RBM9	3RBMS9	9"	1/2"
3RBM12	3RBMS1	2 12"	1/2"

MODEL 3VBM, 3" Vari-angle

CAT NO.	Stem Length*	NPT
3VBM25	21/2"	1/2"
3VBM4	4"	1/2"
3VBM6	6"	1/2"
3VBM9	9"	1/2"
3VBM12	12"	1/2"



MODEL 5RBM, 5" Angle - 5RBMS, 5" Str.

	CAT NO.		em Length*	NPT
	5RBM25	5RBMS25	21/2"	1/2"
ı	5RBM4	5RBMS4	4"	1/2"
ı	5RBM6	5RBMS6	6"	1/2"
ı	5RBM9	5RBMS9	9"	1/2"
ı	5RBM12	5RBMS12	12"	1/2"

MODEL 5VBM. 5" Vari-angle

	7	<u> </u>
CAT NO.	Stem Length*	NPT
5VBM25	21/2"	1/2"
5VBM4	4"	1/2"
5VBM6	6"	1/2"
5VBM9	9"	1/2"
5VBM12	12"	1/2"

NOTE: When ordering Silicone Filled Bimetals add Prefix SF to appropriate Catalog No. Ex: SF5RBM25

FAHRENHEIT	FIG. INTER.	SCALE DIV.	CELSIUS	FIG INTER.	SCALE DIV.	DUAL SC	ALE - F&C
-80/0/120	20°	2°	-50/0/50	10°	1°	-80/0/120F	-60/0/50C
-20/0/120	20°	2 °	**0/50	5°	1/2°	-20/0/120F	-30/0/50C
**30/130	10°	1°	0/100	10°	1°	**30/130F	0/55C
0/200	20°	2°	0/150	10°	1°	0/200F	-15/0/90C
0/250	20°	2 °	0/200	20°	2°	0/250F	-20/0/120C
50/300	20°	2 °	0/300	50°	2°	50/300F	10/150C
50/400	50°	5°	*0/450	50°	5°	50/400F	10/200C
50/550	50°	5°	·*100/550	50°	5°	50/550F	10/260C
*100/800	100°	10°				*100/800F	40/425C
**200/1000	100°	10°				**200/1000F	100/540C

[•] Satisfactory for continuous service up to 800°F or 425°C. Can be used for intermittent service from 800-1000°F or 425-500°C. * Minimum stem length for these ranges is 4". ** Minimum stem length is 4" Straight and Vari-angle Form.

SEPARABLE SOCKETS FOR 3" AND 5" ONLY					DUCT MOU	INTING FLANGES
	CAT. NO.	STEM LGTH.	INSERT LGTH.		CAT. NO.	INSERTION
3/4" NPT	B25 B35 BR6 BR9 BR12	21/2 4 6 9 12	11/2 21/2 41/2 71/2 101/2		BF3 BF3-2	STANDARD EXTENSION NECK
	CAT. NO.	STEM LGTH.	INSERT LGTH.	LAG EXT.		
3/4" NPT	BSS35 BN6 BN9 BN12	4 6 9 12	11/2 21/2 41/2 71/2	13/4 2 3 3		

^{*}Includes thread. Longer stem lengths available.

VAPOR ACTUATED DIAL THERMOMETERS

Offered in 31/2" and 41/2" dial sizes, these thermometers are furnished in four stainless steel case configurations for direct, surface or panel mounting. The following coding chart illustrates a wide variety of bulb styles, capillaries and process connection fittings. The versatility of configurations makes these thermometers well suited to a wide range of applications including hot and chilled water pipeline systems, tanks and air ducts.

	1				
CODE	CATALOG NO.	DESCRIPTION			
I	35 45	CASE SIZE 31/2" Case 41/2" Case			
II	V B R Z	CASE TYPE Vari-angle,® Direct Mount Back Flange, Surface Mount Semi-flush, Panel Mount Adjustable Bracket, Remote Mount			
III	A B L	CASE CONNECTION Adjustable Back Connection Lower Connection			
IV	3	CASE WINDOW Snap in Lexan with "O" Ring			
		THERMAL SYSTEM Bulb Bulb Capillary Capillary Type Material Material Protection			
V	0 2 3 5 7 8 9	Union Copper (Vari-angle only) Plain Copper Copper Cu. Braid Plain 316 S.S. 316 S.S. None Union Copper Copper Cu. Braid Union 316 S.S. Copper Cu. Braid Union 316 S.S. 316 S.S. Intlock Armor* Union 316 S.S. 316 S.S. None			
		*At bulb end 31/2" long. All systems have S.S. Spring capillary protection at indicating head. No. 5–7 system include S.S. spring at bulb end – S.S. jam nut standard on No. 8–9 system.			
VI	1 2* 3* 4 5	Thermal System No. 5 Thru 9 (Union) Dia. Length N.A. N.A. Length N.A. N.A.			

STA	NDARD RANGE	S*			
-40-0-60F	0-150F	30-300F			
-20-0-100F	0-180F	100-350F			
-40-0-110F	40-240F	60-260F			
*All Ranges availab	*All Ranges available in Dual Scale, F&C.				

1/8" X 180" Averaging Bulb

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6



VII	1 2 3 4 5 6 7 9	PROCESS CONNECTION FITTING Union Connection 1/2" NPT Union Connection 3/4" NPT Separable Socket 1/2" NPT Separable Socket 3/4" NPT Separable Socket 1/2" NPT with 2" Lag Extention (No.3 Bulb only) Separable Socket 3/4" NPT with 2" Lag Extention (No.3 Bulb only) Air Duct Flange, Union Conn., Aluminum only Plain bulb, no fitting
VIII	1 2 3 5	PROCESS CONNECTION MATERIAL Brass 304 Stainless Steel 316 Stainless Steel Aluminum (Air Duct Flange only) None – Plain Bulb
IX A-B	See Example Below	SYSTEM LENGTH SPECIFYING 9A - Use 2 digits: EX. 05, 10, 99 for length required. 9B - Use FT for feet, use IN for inches

EXAMPLE FOR OBTAINING COMPLETE CATALOG NUMBER FROM CODES - SERIES VTR

CODE I-IV (HEAD ASSY) 4 5 B L 3	_	CODE V-VIII (THERMAL SYSTEM) 5 2 3 1	CODE IX A – B (CAPILLARY LENGTH) — 05FT
		RANGE 40-240 F	

EXAMPLE FOR OBTAINING COMPLETE CATALOG NUMBER FROM CODES - SERIES VTVA

CODE I-IV (HEAD ASSY) 4 5 VA3

10Ft.

05Ft.

2.5

3/8 *Only No. 2&3 bulbs are options for Vari-angle.

> CODE V-VIII (THERMAL SYSTEM) 0 2 3 1

RANGE 40-0-60 F&C

DIGITAL VARI-ANGLE THERMOMETER



SPECIFICATIONS

CASE Hi-impact ABS
RANGE -50/300°F -45/150°C

ACCURACY

1/2" LCD digits, wide ambient formula

1% of reading or 1° whichever is greater

1/10° between -19.9/199.9°F (-28/93°C)

RECALIBRATION Internal potentiometer
LUX RATING 10 Lux (one foot-candle)

UPDATE 10 seconds

AMBIENT OPERATING -30/140°F (-35/60 °C)

AMBIENT TEMP ERROR Zero HUMIDITY 100%

STEM ASSEMBLIES

SENSOR Glass passivated thermistor

INDUSTRIAL GLASS
Full conformance with
Fed Spec GG-T-321D.
Fully interchangeable

BIMETALLIC
Full conformance with
ASME B40.3-1990.
Fully interchangeable

with Industrial Glass

Thermometers.

ASME B40.3-1990. Fully interchangeable with Bimetallic Dial Thermometers.

The Weiss patented*Digital Vari-angle® Thermometer maintains the strict requirements for thermometers in hydronic applications in that they're self-powered and within 1% accuracy. This reliable series of digital thermometers offers the added feature of stem assemblies for direct replacement of mercury-in-glass types where environmental concerns exist. Whether on new installations or replacements, our Vari-angle Digital Thermometers include the same level of quality that the industry associates with the Vari-angle trademark and all Weiss Products.

CAT. NO.	DESCRIPTION	IDN	
DVU35	31/2" Industrial Stem	62100	
DVU6	6" Industrial Stem	62110	
E35-75BS*	3/4" NPT 31/2" Socket	20300	
ER6-75BS*	3/4" NPT 6" Socket	20500	
EN6-75BS*	3/4" NPT 6" Ext. Socket	20501	
DVBM25	2 1/2" x 1/2" NPT Stem - Bimetal Type	62120	
DVBM4	4" x 1/2" NPT Stem - Bimetal Type	62130	
DVBM6	6" x 1/2" NPT Stem - Birnetal Type	62140	
DVD6	6" Stem w/Duct Mtg. Flange	62310	
DVD9 9" Stem w/ Duct Mtg. Flange 6232			
*For use with DVU thermometers on new installations.			



VARI-ANGLE DIGITAL TEMPERATURE TRANSMITTER

Introducing the first "self-indicating" temperature transmitter that is light powered. Combining Weiss's patented mercury-free Solar Industrial Thermometer with a loop-powered 4 to 20mA transmitter results in a single unit that allows local reading and remote transmitting for HVAC systems, building automation or anywhere local and remote readings are required. Dual sensors offer independent operation for reliability and convenience. The DVUT requires one thermowell which saves time and money without sacrificing performance.



CASE Hi-impact ABS **RANGE** with F/C Switch -50/300°F (-45/150°C) 1/2" LCD digits, wide ambient formula 1% of reading or 1° whichever is greater **DISPLAY ACCURACY** RESOLUTION 1/10° between -19.9/199.9°F **RECALIBRATION** Through case potentiometer adjustment 10 Lux (one foot-candle) **LUX RATING UPDATE** 10 seconds **AMBIENT OPERATING** -30/140°F (-35/60°C) **AMBIENT TEMP ERROR** Zero HUMIDITY 100% SENSOR Glass passivated thermistor - NTC

STEM ASSEMBLIES

INDUSTRIAL GLASS	BIMETALLIC	
Full conformance with	Full conformance with	
Fed Spec GG-T-321D.	ASME B40.3-1990.	
Fully interchangeable with Industrial Glass	Fully interchangeable	
with Industrial Glass	with Bimetallic Dial	
Thermometers	Thermometers	

TRANSMITTER

RANGE -58/302°F (-50/150°C) **OUTPUT** 4 to 20 mA **OPERATING AMBIENT** -15/185°F (-25/85°C) AMBIENT ERROR .015% Span (°C) 8.5 to 35VDC **SUPPLY MAX.LOAD RESISTANCE** 775Ω with 24VDC Supply 0.5% of Span **ACCURACY** Platinum 100ΩRTD SENSOR

INFRA-RED THERMOMETER

This Professional Grade Infra-red Thermometer is one of the most advanced units manufactured today. It's easy to use and applicable for almost any temperature measurement, including HVAC balancing, motor temperatures, air conditioning and hot / chilled water pipe lines.



- 14:1 Ratio
- Dual Laser Pointer
- Pistol Grip Design
- Back Light
- 1% Accuracy
- Auto Off

Cat. No.	Range (Switchable)	IDN
IR141	-58/986°F -50/530°C	60206

SURFACE THERMOMETERS

Spring and Magnet Held Thermometers to monitor the surface temperatures of pipes, motors, engines, tanks, etc.



CAT. NO.	DIAL	RANGE	TYPE
MG25BM	21/2"	0 – 500 F&C	Magnet
SP25BM	21/2"	0 – 500 F&C	Spring
MG25BM	21/2"	30 – 250 F&C	Magnet
SP25BM	21/2"	30 – 250 F&C	Spring

SPRINKLER SERVICE GAUGES

The Weiss Fire Protection Sprinkler Gauges are Underwriters Laboratory listed and Factory Mutual approved for fire protection sprinkler service. The 0-300 psi pressure range is used on "wet" systems where water is available to the sprinkler heads.

The 0-80 retard to 250 psi pressure range is used on dry systems where the lines are filled with air pressure until system activation.

SPECIFICATIONS

DIAL SIZE - 31/2"

CASE - ABS (POLYCARBONATE)

WINDOW - POLYCARBONATE PUSH-IN

ACCURACY - ASME B40.1 GradeB 3-2-3%

TUBE & SOCKET - BRONZE / BRASS

CONNECTION - 1/4" NPT LOWER

APPROVALS - UL / FACTORY MUTUAL

OPERATING TEMP -40/150°F



Zero Zone indication, a standard feature on these gauges, reduces the potential risk of installing a damaged gauge on your equipment.

CAT NO.	RANGE
SSG-300-4L	0-300 psi (Water)
SSG-080-4L	0-80 Retard to 250 psi (Air)

LEAD FREE GAUGES & ACCESSORIES

SPECIFICATIONS - 4CTSLF

DIALSIZE - 41/2"

CASE - Drawn stainless steel, with push-in Lexan window.

TUBE - Phosphor bronze.

SOLDER CONNECTION - Lead Free.

SOCKET < 0.25% Lead Free Brass

CERTIFICATION - UL in accordance with NSF/ANSI 372

CERTIFICATION NR - 20131004-MH59893

CONNECTION - 1/4" NPT Bottom

DIAL - White coated metal lithographed with black graduations lines and numerals.

POINTER - Slotted adjustable.

ACCURACY - 1% ANSI-ASME B40.1 Grade 1A.

OPERATING TEMPERATURE

Ambient: -40°F to 140°F (-40°C to 60°C) Media: 140°F (+60°C) Maximum



UTILITY PRESSURE GAUGES - WEISS SERIES 25CTSLF

CAT. NO.	RANGES		ANSI/ASME
	0 - 30 PSI	0-160 PSI	
25CTSLF	0 - 60 PSI	0-200 PSI	B40.1 Grade B
Black Plastic Case	0-100 PSI	0-300 PSI	

HVAC PRESSURE GAUGES - WEISS SERIES 4CTSLF

CAT. NO.	RANGES		ANSI/ASME
	0 - 30 PSI	0-160 PSI	
4CTSLF	0 - 60 PSI	0-200 PSI	B40.1 Grade 1A
Stainless Steel Case	0-100 PSI	0-300 PSI	

BALL & NEEDLE VALVES & SNUBBERS FOR HVAC PRESSURE GAUGES

CAT. NO.	SIZE	MATERIAL	RATING
BLC-14LF (Ball Valve)	1/4" FNPT x 1/4" FNPT	Lead Free Brass	600 psi / 300°F
25NVBRLF (Needle Valve)	1/4" FNPT x 1/4" FNPT	Lead Free Brass	600 psi / 300°F
PSN-B-E-25LF (Snubber)	1/4" FNPT x 1/4" MNPT	Lead Free Brass	600 psi / 300°F

LEAD FREE THERMOWELLS FOR INDUSTRIAL GLASS, BIMETAL DIAL AND DIGITAL THERMOMETERS

CAT NO.	LENGTH	APPLICABLE TO THERMOMETER ITEMS	ANSI/ASME
E35-75BSLF	41/4	9VU35, A9VU35, DVU35	B40.2
ESS35-75BSLF	41/4	9VU35, A9VU35, DVU35	B40.2
ER6-75BSLF	6 3/4	9VU6, A9VU6, DVU6	B40.2
EN6-75BSLF	6 3/4	9VU6, A9VU6, DVU6	B40.2
B25-75BSLF	23/4	5VBM25, 3VBM25	B40.2
B35-75BSLF	4 1/4	5VBM4, 3VBM4	B40.2

DIGITAL PROCESS PRESSURE GAUGES

Advanced Technology in Pressure Measurement

The wide acceptance and success of Weiss Light Powered Instruments is attributed to their high level of quality and reliability as well as an understanding about the impractical nature of changing batteries in industrial applications.

• IP65 Weatherproof Housing

• ASME B40.7 Conformance

User Selector Functions<10 Lux Rating

4-20 MA Output

Large Display



LIGHT POWER
GREEN POWER

SPECIFICATIONS

Case: 41/2" Black Glass Reinforced Thermo Plastic (PBTP) Solid Front Construction, Blow Out Back

Safety Design, Weatherproof IP65

Window: Acrylic

Sensor: Gold Plated Ceramic, Kalrez®

(chemically resistant) O-Ring Seal

Wetted Materials: 316SS

Ranges: Vacuum to 1,000 psi (See Range Table)

Accuracy: 0.5% Full Scale ASME 40.7 AA (.25% available consult factory)

Ambient Operating: -10-140°F (-10-60°C)

DISPLAY

Type: LCD

Lux Rating: <10 (only one foot-candle)

Resolution: 1/4% Digits: (4) 5/8" High Update: One second

Two seconds (under 20 Lux)

USER SELECTOR FUNCTIONS

Left Units Select from 4 units of measure

PSI, kPa, KG/CM2 or Bar with

corresponding Vacuum

Center Zero Adjustment ±4 increments

Right Avg. Set reading in average of

1,2,4,8 seconds

316SS Sensor /	316SS Socket 1/4"NPT	316SS Sensor	/ 316SS Socket 1/2" NPT
Range	Cat. No.	Range	Cat. No.
15 psi*	DUGY3-015-4L	15 psi*	DUGY3-015-2L
60 psi*	DUGY3-060-4L	60 psi*	DUGY3-060-2L
100 psi*	DUGY3-100-4L	100 psi*	DUGY3-100-2L
200 psi	DUGY3-200-4L	200 psi	DUGY3-200-2L
400 psi	DUGY3-400-4L	400 psi	DUGY3-400-2L
1000 psi	DUGY3-1000-4L	1000 psi	DUGY3-1000-2L
*These Ranges (Ite	ms also indicate Vacuum)		

Digital Ranges							
Vacuum	psi	kPa	KG/CM2	Bar			
30" HG*	15	100	1	1			
30" HG*	60	400	4	4			
30" HG*	100	700	7	7			
_	200	1400	14	14			
_	400	2800	28	28			
_	1000	7000	70	70			
*Metric F	Reads	-100 kPa	76 CM/HG	-1 Bar			

HOW TO ORDER - DUGY3 - Range Code - NPT Size - Location - Options							
Range	Code	Size	Code	Code			
Vac to 15 psi*	015	1/4 Lower	4L	SG			
Vac to 60 psi*	060	1/2 Lower	2L	Т			
Vac to 100 psi*	100						
0-200 psi	200						
0-400 psi	400						
0-1000 psi	1000						
Ex: DUGY3-060-4L							

OPTIONS				
SG-Safety Glass				
T - 4-20 MA Output Starts at zero psi to top of Range				

TRADE LINE PRESSURE GAUGES

Weiss TL Gauges are intended for general service conditions, for pressure or vacuum on air, oil, water, gas or other mediums that do not attack brass. TL Gauges are furnished in drawn steel cases, finished in black. The 11/2" dials are supplied with 1/8" NPT and 2" dial versions are available with 1/4" or 1/8" NPT connections. All other dial sizes are 1/4" NPT. All gauges conform with ANSI B40.1 accuracy Grade B-2 mid scale.

TO SPECIFY						
CHOOSE	CAT. NO.	– PLUS RAI	NGE CODE -	PLU	JS CONNECTION	
INDIC/ DIAL		RANGE CODE	RANGE	_	SIZE & LOCATION	
TL15	1 1/2"	015	0-15	8L	= 1/8" Lower	
TL20	2"	030	0-30			
TL25	21/2"	100	0-100	8B	= 1/8" Ctr Back	
TL40	4"	160	0-160			
		200	0-200	4L	= 1/4" Lower	
		300	0-300			
		400	0-400	4B	= 1/4" Ctr Back	
		600	0-600			
		VAC	0-30"HG			
		V30	30-0-30			
		V60	30-0-60			
		V100	30-0-100			
		V150	30-0-150			
Ex: TL:	25 – 100	– 4L				



	PRESSURE	
RANGE	GRADUATIONS	FIG. INTERVAL
0-15	0.5	1
0-30	0.5	5
0-60	1	5
0-100	2	10
0-160	5	20
0-200	5	20
0-300	5	30
0-400	10	50
0-600	10	50
	COMPOUND	
30-0-15	1" Hg0.5p	5" Hg3p
30-0-30	1" Hg1p	10" Hg5p
30-0-60	2" Hg1p	10" Hg10p
30-0-100	5" Hg2p	15" Hg10p
30-0-150	5" Hg2p	30" Hg20p
	VACUUM	
30"-0	0-5" In. Hg.	5" In. Hg.

HVAC PRESSURE GAUGES

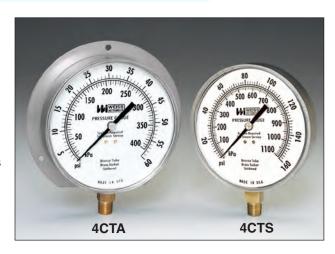
Weiss 4 1/2" CTS/CTA Pressure Gauges are designed to meet the standard specifications for Heating, Cooling and Air Conditioning applications. The CTS has a stainless steel case for stem mount and the CTA is an aluminum back flange case for either stem or surface mounting. Both versions conform with ANSI B40.1 accuracy Grade 1A.

POINTER: Balanced adjustable aluminum.

DIAL: White coated metal, lithographed with black graduation lines and numerals.

MOVEMENT: Brass construction.

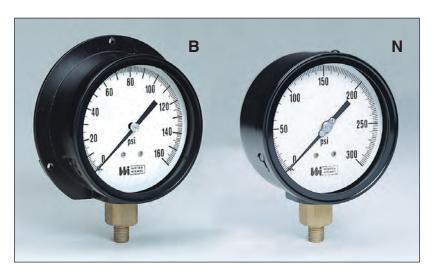
BOURDON TUBE & SOCKET: Phosphor bronze bourdon. Brass stock socket 9/16" square wrench surface and 1/4" NPT lower connection. Soft-soldered construction.



	PRESSURE	·		COMPOUND	
RANGE	GRADUATIONS	FIG. INTERVAL	RANGE	GRADUATIONS	FIG. INTERVAL
0-15	0.2	1	30-0-15*	1" Hg0.5p	10" Hg5p
0-30	0.5	5	30-0-30	1" Hg0.5p	10" Hg10p
0-60	1	5	30-0-60	1" Hg 1p	10" Hg10p
0-100	1	10	30-0-100	2" Hg 1p	30" Hg20p
0-160	2	20	30-0-150*	2" Hg 2p	30" Hg20p
0-200	2	20	30-0-300*	10" Hg 5p	30" Hg50p
0-300	5	50			
0-400	5	50		VACUUM	
0-600	10	50	30"-0	0-5" In. Hg.	5" In. Hg.

^{*}In the 4CTA-1 Gauge these ranges are not available.

INDUSTRIAL PRESSURE GAUGES



The Weiss Series 088 Gauges are ideal for use on boilers, compressors, pumps, and any industrial applications that require a heavy duty internal gauge. Our $4\,1/2$ " case styles have a glass window, solid back with safety blow out disc standard.

Available in two case styles–Style B: Aluminum Back Flange and Style N: Aluminum No Flange, all have 1/4" NPT lower mount connection. Optional 1/2" NPT available.

TO SPECIFY							
SIZE	CAT. NO.	CASE STYLE	NPT	MOUNT	RANGE		
41/2"	4PG-1	B - Back Flange	1/4"	LM*	_		
41/2"	4UG-1	N - No Flange	1/4"	LM			
Ex : 4P	Ex: 4PGN-1 1/4" LM 0-160 psi *LM - Lower Mount						

CAT. NO.	POINTER	RANGE LIMITS	BOURDON TUBE	MOVEMENT	SOCKET	ACCURACY
PG-1	SLOTTED ADJUSTABLE	VACUUM THRU 0-600 psi	"C" PHOSPHOR BRONZE SILVER BRAZED JOINTS	BRASS BUSHED ROTARY	BRASS	1% ANSI GRADE A
UG-1	MICROMETER ADJUSTABLE	VACUUM THRU 0-600 psi	"C" PHOSPHOR BRONZE SILVER BRAZED JOINTS	STN. STL. BUSHED ROTARY	BRASS	1/2 of 1% ANSI GRADE 2A

	PRESSURE			COMPOUND	
RANGE	GRADUATIONS	FIG. INTERVAL	RANGE	GRADUATIONS	FIG. INTERVAL
0-15	0.1	1	30-0-15	0.5" Hg 0.2p	5"Hg3p
0-30	0.2	5	30-0-30	1" Hg0.5p	10" Hg 5p
0-60	0.5	5	30-0-60	1" Hg 1p	10" Hg10p
0-100	1	10	30-0-100	2" Hg 1p	10" Hg10p
0-160	1	20	30-0-150	5" Hg 2p	10"Hg 20p
0-200	2	20	30-0-300	5" Hg 2p	30"Hg 25p
0-300	2	50			
0-400	5	50		VACUUM	
0-600	5	50	30"-0	0.2" In. Hg.	5" In. Hg.

PROCESS PRESSURE GAUGES

The 41/2" Process Gauge is designed for those severe service applications where operator safety is a factor. This solid front gauge is equipped with a solid wall separating the indicating dial from the bourdon tube and a blowout back which will release from the case if the bourdon tube should rupture.

Available with phosphor bronze/brass, 316 stainless steel or monel internals, liquid-filled or dry construction, this gauge is ideally suited for the requirements of the Process, Power and Chemical Industries. This high quality gauge offers the benefit of field filling without any additional kits or accessories.



NF4UGY1 NON-FILLED / LF4UGY1 LIQUID FILLED

SOCKET: Brass

BOURDON TUBE: Phosphor bronze - C tube to 600 psi. AISI 316 stainless steel coiled tube 1000 psi and above.

CONNECTING JOINTS: Silver brazed **MOVEMENT:** Bushed stainless steel

DIAL: White aluminum, black & red markings (psi & kPa)

POINTER: Black aluminum, micrometer adjustable CASE: Black reinforced thermoplastic fiberglass

WINDOW: Acrylic

RING: Reinforced polypropylene GASKETS: Ethylene propylene

ACCURACY: 0.5% ASME B40.1 Grade 2A CONNECTIONS: 1/4" or 1/2" NPT lower CAT. NO. LF4UGY1: Lower connection only.

NF4UGY2 NON-FILLED / LF4UGY2 LIQUID FILLED

SOCKET: AISI 316 stainless steel

BOURDON TUBE: AISI 316 S.S. - C tube to 600 psi. Coiled tube 1000 psi and above.

CONNECTING JOINTS: Welded MOVEMENT: Bushed stainless steel

DIAL: White aluminum, black & red markings (psi & kPa) **POINTER:** Black aluminum, micrometer adjustable **CASE:** Black reinforced thermoplastic fiberglass

WINDOW: Acrylic

RING: Reinforced polypropylene GASKETS: Ethylene propylene

ACCURACY: 0.5% ASME B40.1 Grade 2A

CONNECTIONS: 1/4" or 1/2" NPT lower or lower back

CAT. NO. LF4UGY2: Lower connection only.

	PRESSURE			COMPOUND	
RANGE	GRADUATIONS	FIG. INTERVAL	RANGE	GRADUATIONS	FIG. INTERVAL
0-15	0.1	1	30-0-15	0.5" Hg0.2p	5" Hg3p
0-30	0.2	5	30-0-30	1" Hg0.5p	10" Hg5p
0-60	0.5	5	30-0-60	1" Hg1p	10" Hg10p
0-100	1	10	30-0-100	2" Hg1p	10" Hg10p
0-160	1	20	30-0-150	5" Hg2p	
0-200	2	20	30-0-300	5" Hg2p	30" Hg25p
0-300	2	50		- 5 1	3 -1
0-400	5	50		VACUUM	
0-600	5	50			
0-800	10	100	bar -1-0	0.01	0.1
0-1000	10	100	kPa -100-0		10
0-1500	10	200	30"-0	0.2" In. Hg.	5" In. Hg.
0-2000	20	200			
0-3000	20	500			
0-5000	50	500			
0-10000	100	1000			
0-20000	200	2000			

STAINLESS STEEL INDUSTRIAL GAUGES





Where vibration, corrosion and pulsating conditions exist, the Weiss line of stainless steel cased liquid filled and dry construction industrial pressure gauges are designed to meet the most severe applications. This series of instruments includes a wide range of accuracies, case patterns and construction materials to cover most requirements.

INDICATES CONSTRUCTION - RANGE CODE				E CODE	-	SIZE	& LOCATION
CAT. NO	- DIAL SIZE	- INTERNALS	RANGE CODE	RANGE - psi	kPa		
IQUID FILL			015	0-15	0-100	4L	= 1/4" Lower
LF251	21/2"	Bronze	030	0-30	0-200	4B	= 1/4" Back
LF252	21/2"	316S.S.	060	0-60	0-400		
LF441	4"	Bronze	100	0-100	0-700	2L	= 1/2" Lower
LF442	4"	316S.S	160	0-160	0-1100	2B	= 1/2" Back
LF602	6"	316S.S.	200	0-200	0-1400		
			300	0-300	0-2100		
DRY			400	0-400	0-2800		
NF252	21/2"	316S.S.	600	0-600	0-4200		
NF401	4"	Bronze	1000	0-1000	0-7000		
NF402	4"	316S.S.	1500	0-1500	0-10,000		
NF601	6"	Bronze	2000	0-2000	0-14,000		
NF602	6"	316S.S.	3000	0-3000	0-21,000		
			5000	0-5000	0-40,000		
			6000	0-6000	0-42,000		
			10000	0-10,000	0-70,000		
			15000	0-15,000	0-100,000		
			20000	0-20,000	0-140,000		
			VAC	0-30"HG	-100-0		
			V30	30"-0-30	-100-200		
			V60	30"-0-60	-100-400		
			V100	30"-0-100	-100-700		
			V150	30"-0-150	-100-1000		
			V200	30"-0-200	-100-1400		
			V300	30"-0-300	-100-2100		

Panel Mounting Case Styles available - see Catalog SSG-9/13

LOW PRESSURE DIAPHRAGM GAUGES

Designed for pressures below 15 psi, the Weiss Diaphragm Gauge offers an instrument highly sensitive yet durably constructed. Furnished in black drawn steel cases. Available in 21/2" dial size and 1/4" NPT lower or center back connected.

CASE: Black drawn steel, with twist lock polycarbonate window. DIAPHRAGM: Copper alloy.

SOCKET: Brass, 1/4" NPT lower or center back connection. MOVEMENT: Brass.

DIAL: White coated metal lithographed with black graduations lines and numerals.

POINTER: Balanced design, aluminum in black finish.

SERIES & TYPE	-	RANG	E CODE +	CONNECTION
	TYPE	CODE	RANGE	
DG25C Combination Pressure Dial	С	100	100"WP&60 oz/in	4L (1/4" NPT Lower)
DG25P Pressure Dial	С	145	35"WP&20 oz/in	4B (1/4" NPT Back)
DG25V Vacuum Dial	С	015	15"WP&9 oz/in	
	P P P	003 005 010 015	0-3 PSI 0-5 PSI 0-10 PSI 0-15 PSI	
	P	030	0-30" WP	
	Р	060	0-60" WP	
	P	100	0-100" WP	
	V	030	30-0" WV	
	V	060	60-0" WV	
	V	100	100-0" WV	



Ex: DG25P-005-4L Pressure Dial 0-5 PSI, 1/4" NPT Lower Connection

	PRESSURE		COMBIN	ATION	INNEF	SCALE	OUTE	RSCALE
RANGE	GRADUATIONS	FIG. INTERVAL	IN. WATER	OZ. WATER	GRADS	FIGURE	GRADS	FIGURE
0-3psi	0.05	0.5	OUTER SCALE	INNER SCALE		INTERVAL		INTERVAL
0-5 psi	0.1	1.0	0-35	0-20	0.5	5.0	0.5	5.0
0-10 psi	0.1	1.0	0-15	0-9	0.2	1.0	0.2	3.0
inch/water		-	0-60	0-35	1.0	5.0	1.0	10.0
0-15	0.2	3.0						
0-30	0.5	5.0						
0-60	1.0	10.0						
0-100	1.0	10.0						
ozsq. in.				V	ACUUM -	in water vac).	
0-10	0.1	1.0	RANGE	GRAI	DUATIONS		FIG. IN	ITERVAL
0-15	0.2	3.0	30-0		0.5			5.0
0-30	1.0	5.0	60-0		1.0		1	0.0
0-100	1.0	10.0	100-0		1.0		1	0.0

TRI-O-METERS

The Weiss Tri-o-meter is designed for use on all types of hot water heating systems. One instrument reads the water pressure, water temperature and system head in feet of H2O. Available in 21/2" dial with 1/4" NPT rear connection and 3 1/2" dial with 1/2" NPT lower or rear connected.

1	-75 psi & Ft. of H2O -200 psi & kPa	60-260 F&C 80-320 F&C
CAT. NO.	DESCRIPTI	ON
CTP25R	1/4" NPT Re	ear
CTP25RX	1/4" NPT Rear x 2" Extension	
CTP40RSX	1/2" NPT Re	ar
CTP40L	1/2" NPT Lo	wer
HTP40RSX	1/2" NPT Rear	
HTP40L	1/2" NPT Lo	wer



DIGITAL VARI-ANGLE THERMOMETERS





CASE SIZE & MATERIAL - 5" Hermetically Sealed St.St. RANGE -50 to 300°F (-45 to 150°C) with F/C switch

ACCURACY - 1%

WINDOW - Glass / Acrylic / Shatterproof Glass

LUX RATING - 10 Lux (one foot candle)

DISPLAY - 1/2" LCD Digits

RESOLUTION - 0.1°F between -19.9/199.9°F (-20/93°C)

AMBIENT OPERATING -30/140°F (-35/60°C)
AMBIENT TEMPERATURE ERROR - Zero

SENSOR - Glass Passivated Thermistor

RESET - Internal Potentiometer

STEM - Bimetal: 1/4" Diameter with Fixed 1/2" NPT Ind. Glass: 7/16" Tapered with 11/4"-18 jam nut

CONFORMANCE - ASME B40.3

® Vari-angle is a registered trademark of Weiss Instruments, Inc.

5" BIMETAL DIAL	5" INDUSTRIAL		
Catalog No. 5" Vari-angle Stem Length (incl. thread) NPT 5DVBM25 2 1/2" 1/2" 5DVBM4 4" 1/2" 5DVBM6 6" 1/2" 5DVBM9 9" 1/2" 5DVBM12 12" 1/2"	Catalog No. Stem Length 5" Vari-angle (incl. thread) Thread 5DVU35 31/2" 1-1/4-18 5DVU6 6" 1-1/4-18 5DVU9 9" 1-1/4-18 5DVU12 12" 1-1/4-18		

TEMPERATURE SWITCH GAUGES

The Weiss Series TSG, Temperature Switch Gauge, offers an exceptional blend of industrial strength performance with unequaled accuracy. The rugged direct drive gearless movement is highly resistant to shock and vibration, provides many years of trouble free operation even in harsh environments. The ambient temperature error is the lowest in the industry complying with the highest grade ASME B40.4 Class 4A.



Secured inside the rugged case are up to 5 (4 standard) single and double throw 10 amp switches for enabling a variety of switching functions. The thermal system is filled with inert nitrogen, is non-toxic and unaffected by the height location of the sensor bulb to the case. The Weiss TSG is an excellent choice for many types of Industrial and Process applications.

Ordering Chart on the following page.

TEMPERATURE SWITCH GAUGES

	MODEL	DESCRIPTION	MOUNTING
I	TSG60B TSG60K TSG60S TSG60X	Bracket Mount (Standard) Back Flange Front Flange Explosion Proof (3 Switch Max.)	Surface Surface Panel Surface
II	MH SG	WINDOW Maximum Register Indicator (Standard) Safety Glass	
III	1S 2S 3S 4S 5S	SWITCHES 1 Switch 2 Switch 3 Switch 4 Switch 5 Switch	
IV	HC TB	ELECTRICAL CONNECTION Harness Connection Terminal Block (Standard on Explosion P	roof Case)
	X6 X7 X8	THERMAL SYSTEM 3" 316SS Bulb, 302SS Spiral Interlocking A 1/2" NPT Compression, 316SS Bendable 3" x 3/8" Bulb 6" Extension 3" x 3/8" Bulb 12" Extension 3" x 3/8" Bulb 18" Extension	Extension.
V	Y6 Y7 Y8	6" 316SS Bulb,302SS Spiral Interlocking Armor 40 Ft./U 1/2" NPT Compression, 316SS Bendable Extension. 6" x 3/8" Bulb 6" Extension 6" x 3/8" Bulb 12" Extension 6" x 3/8" Bulb 18" Extension	
	91 92 93 94	7/8"- 14 UNF Nut. Copper Bulb , 302SS Spring Armor (40 Ft. Max) 4" x .480 Bulb 5 13/16" Extension 4" x .480 Bulb 6 3/8" Extension 4" x .480 Bulb 9 11/16" Extension 4" x .480 Bulb 12" Extension Adjustable 7/8"- 14 UNF Nut. Copper Bulb , 302SS	
	95 95 RTD	Spiral Interlocking Armor. 4.0" x .480 Bulb 4.5" x .480 Bulb w/ RTD Sensor	110, 00200
VI		SERVICE MARKING Winding Liquid Weiss	
VII		CAPILLARY LENGTH XX Ft. (12 Ft. Standard)	

SPECIFICATIONS

CASE - Nominal 6" diameter 304 Stainless Steel Case with bayonet ring available in Bracket, Back Flange and Front Flange mounting configurations. Heavy duty cast aluminum case with threaded bulletproof window for explosion proof version.

WINDOW - Lexan (standard) with maximum register indicator.

ACCURACY 1.5% of range span.

RANGES - From –320 to 1000°F, standard ranges available in °F, °C and dual scale F&C, with 180 degree arc dials.

OVERRANGE - Up to 50% depending on range.

PROCESS CONNECTION - Industry standard 3/8" diameter 316 stainless steel bulb with bendable extention and with sliding union bulb fits standard 3/8 bore thermowells. Copper bulbs with standard .480" dia. bulb and 7/8" – 14 UNF thread for power transformer applications.

CAPILLARY - 316 SS

CAPILLARY PROTECTION - 302 SS Spiral Interlocking Armor to 150 Ft. 302 SS Spring Armor to 40 Ft.

ACTUATION - Enhanced gas filled as per ASME B40.4 Class 4A with low volume NiSpan C[®] direct drive spiral bourdon tube providing very low ambient temperature effect without the need for bimetallic compensation.

SWITCH RATING - Up to 5 switches (4 standard) 10 amp at 125/250 Vac, non inductive: 1/4 amp at 250 VDC, non inductive.

SWITCH CONNECTIONS - Harness connection has 14 pin weatherproof twist lock, military grade. Explosion Proof Case has heavy duty terminal block connection as standard.

SWITCH POINT TEST - An internal spring mechanism allows the pointer to be rotated up the scale to test the switch actuation.

SWITCH DIFFERENTIAL - 2% of span.

OFFSET ADJUSTMENT - Standard.

EXAMPLE FOR OBTAINING COMPLETE CATALOG NUMBER FROM CODES - SERIES TSG

CODE I **CODE II CODE III** CODE IV CODE V **CODE VI CODEVII RANGE** (MODEL) (WINDOW) (SWITCHES) (ELEC.CONN.) (THERMAL SYSTEM) (SERVICE MRK'G) (CAPILLARY LGTH) T S G 6 0 B - M H X 7 4 | S H C 20-140 C WEISS 1 2 FT 12FT. STANDARD

- 1) Ex: TSG60B MH 4S HC X7
- 2) Choose a Temperature Range from Range Table.
- 3) Choose a Service Marking or Weiss Nameplate only.
- 4) Capillary Length.

DIGITAL THERMOMETERS - VAPOR TYPE

CODE	CATALOG NO.	DESCRIPTION		
ı	DV25 DV35 DV45	CASE SIZE 2 1/2" Case 3 1/2" Case 4 1/2" Case		
II	FUBSJQVRKN	Front Flange, Flush Mount 21/2" U Clamp, Flush Mount 21/2" Back Flange, Surface Mount 21/2", 31/2", 41/2" Frt Flange, Bayonet Ring, Semi-Flush Mnt. 31/2" U Clamp, Semi-Flush Mount 31/2" U Clamp, Flush Mount 31/2" Vari-angle, ® Direct Mount 31/2", 41/2" Semi-flush, Panel Mount 31/2", 41/2" Back Flange, Bayonet Ring, Stl. Steel 31/2", 41/2" Adjustable Bracket, Remote Mnt, Stl. Steel 31/2", 41/2"		
III	A B L	CASE CONNECTION Adjustable Back Connection Lower Connection		
IV	3 4 5 8 9	CASE WINDOW Snap in Lexan with "O" Ring (F,U,Q,V,B,R) Stainless Steel Ring & Glass (21/2" U,F - 31/2" J,K,S) Chrome Plated Brass, Glass (Q case only) Crimped Ring,Stl.Steel, Plastic or Glass-Waterproof (U) Threaded One Piece Lexan (F, U)		
v	0 1 3 4 6	THERMAL SYSTEM Bulb Bulb Wire Length Union Copper (Vari-angle only) — Plain Copper None(Wire) 5 Ft. Plain 316 S.S. Interlock Armor 25Ft. Union Copper Interlock Armor 25Ft. Union 316 S.S. Interlock Armor 25Ft.		
VI	1 2 3 6 8*	Thermal System Union Conn. Thermal System Plain Bulb System Len.		
VII	1 2 3 4 7 9 *N *S	PROCESS CONNECTION FITTING Union Connection 1/2" NPT Union Connection 3/4" NPT Separable Socket 1/2" NPT Separable Socket 3/4" NPT Air Duct Flange, Union Conn., Aluminum only Plain bulb, no fitting Nickel-Plated Brass Stainless Steel		
VIII	1 2 3 5 0 *B *S	PROCESS CONNECTION MATERIAL Brass 304 Stainless Steel 316 Stainless Steel Aluminum (Air Duct Flange only) None – Plain Bulb Brass Stainless Steel *only with No. 8 Bulb.		
IX		SYSTEM LENGTH SPECIFYING 9A - Use 2 digits: EX. 05, 10, 25 for length required. 9B - Use FT for feet.		

CASE SIZES - 21/2", 31/2", 41/2" Stainless Steel RANGE -50 to 300°F (-45 to 150°C) with F/C switch ACCURACY - 1%

WINDOW - Acrylic / Glass

LUX RATING - 10 Lux (one foot candle)

DISPLAY - 1/2" LCD Digits

STEM - 7/16" Diameter 5/8"-18 Jam Nut for NPT fittings 3/8" Diameter for Plain bulbs

RESET - Internal Potentiometer

RESOLUTION - 1/10% between -19.9/199.9°F (-20/93°C)

AMBIENT OPERATING -30/140°F (-35/60°C)

AMBIENT TEMPERATURE ERROR - Zero

SENSOR - Glass Passivated Thermistor

CONFORMANCE - ASME B40.4



DV45BB3 - Back Flange, Back Mount



DV45RB3 - Semi-flush, Panel Mnt.



DV35QB5 - U-Clamp, Panel Mount



DIGITAL THERMOMETERS - GAS TYPE

CODE	CATALOG NO.	DESCRIPTION
ı	DG35 DG45	CASE SIZE 31/2" Case 41/2" Case
II	BEFのU>K	CASE TYPE & MATERIAL Back Flange, Aluminum - 41/2" only Turret, Polypropylene* - 41/2" only Front Flange, Aluminum - 41/2" only Front Flange, Semi Flush, Bayonet Ring, St. St 31/2",41/2" U-Clamp, Bayonet Ring, Stainless Steel - 41/2" only Vari-angle,® Stainless Steel - 41/2" only Back Flange, Bayonet Ring, St. St 31/2",41/2"
		*Flush Mounting Ring available as Accessory
III	B L A	CASE CONNECTION Back Connection Lower Connection - (Not available on 31/2" K Case) Adjustable
IV	3 4 5	CASE WINDOW Acrylic Glass Shatterproof Glass - 41/2" only
V	0 1 X	THERMAL SYSTEM Bulb Bulb Capillary Protection Vari-angle 316 S.S. — — — — (Furnished with 1/2" NPT S.S. Swivel) Plain 316 S.S. 316 S.S. S.S.Spiral Armor Sliding Union 316 S.S. 316 S.S. S.S.Spiral Armor
	1	BULB SELECTION Plain Bulb - Remote Dia. Length 3/8 2.5" (Active) + 10" Rigid Ext.
VI	4 6 9 X	Vari-angle bulb Dia. To fit Thermowell with: OA Len. 3/8 4" 4.25" 2.5" 3/8 6" 6.25" 4.5" 3/8 9" 9.25" 7.5" 3/8 12" 12.25" 10.5"
	7 8	Sliding union connection bulb with bendable extension Dia. Length Ext. Insertion Len. Union Thermowell - U 3/8 2.5"(Active) 12" 3 to 12" 2.5 to 10.5" 3/8 2.5"(Active) 18" 3 to 18" 2.5 to 16.5"
VII		SYSTEM LENGTH SPECIFYING 9A - Use 2 digits: EX. 05, 10, 25 for length required. 9B - Use FT for feet.

CASE SIZES - 31/2" and 41/2"

RANGE -50 to 300°F (-45 to 150°C) with F/C switch

ACCURACY - 1%

WINDOW - Acrylic / Glass / Shatterproof Glass

LUX RATING - 10 Lux (one foot candle)

DISPLAY - 1/2" LCD Digits

RESOLUTION - 1/10% between -19.9/199.9°F(-20/93°C)

AMBIENT OPERATING -30/140°F (-35/60°C)

AMBIENT TEMPERATURE ERROR - Zero

SENSOR - Glass Passivated Thermistor

RESET - Internal Potentiometer

STEM - 3/8" Diameter

Sliding Union (1/2" NPT) on bendable extension Direct Mount Vari-angle (1/2" NPT)

Plain Bulbs

CONFORMANCE - ASME B40.4

DG45BL4

Back Flange, Surface Mount, Aluminum



DG45UB4 U-Clamp, Bayonet Ring, St.St.



DG45KB4 Back Flange, Bayonet Ring, St.St.



DG45VA4 - Vari-angle, St.St.



DIAPHRAGM SEALS



The Weiss line of Diaphragm Seals, in conjunction with Weiss pressure indicators, offers instrumentation that's rugged and carefully calibrated to withstand the most severe industrial, process or OEM service. Our diaphragm seals are available in a variety of metal housing materials and process connection sizes to fit most requirements.

Series DS/DV/DT

Max. Pressure/Temperature Limits: Vacuum thru 2300 psi to 100°F,

1500psi to 200°F, 600 psi to 400°F.

Top Housing: 1/4" or 1/2" NPT (304 S.S. standard) **Diaphragm:** 316 L S.S. welded, Viton* or Teflon**

Nuts and Bolts: Stainless Steel Lower Housing: 1/4" thru 1" NPT

** Teflon is available for ranges to 200 psi. Ranges 0-30" HG, 30-0-15 psi, 30-0-30 psi. Silicone Filling only.

A -DV B C D DV=Viton -DT DT=Teflon

A. Top Connection25 = 1/4" NPT

B. Flushing/No Flushing
0 = No flushing conn.

LIQUID FILLINGS: Food-Grade Glycerine • Silicone DC200

25 = 1/4" NPT 0 = No flushing conn. 2 = 316 SS 50 = 1/2" NPT 1 = Flushing conn.

The Series MD/MN is a compact, lightweight, economical diaphragm seal. The upper and lower housing, as well as the diaphragm, are type 316 stainless steel - all welded together making a one piece integral unit, ideally suited for those applications where space is a factor.

The use of a hermetically sealed, liquid filled pressure gauge in conjunction with either a MD or MN seal protects the indicating gauge from both the process medium and atmospheric conditions, as well as reduces pointer fluctuations due to vibration and pulsation.

Series MD

Opr. Pressure: 60 psi thru 1000 psi **Temperature Limits:** -5 to 300°F **Top Connection:** 1/4" or 1/2" NPT

Process Connection: 1/4",1/2" or 3/4" NPT

Ordering Code: ___-MDN2-___

Ex: 25-MDN2-50

A. Top Connection

25 = 1/4" NP 50 = 1/2" NPT **B. Process Conn.** 25 = 1/4" NPT

50 = 1/2" NPT 75 = 3/4" NPT

Series MN

C. Lower Housing Mat'l

Opr. Pressure: 100 psi thru 1000 psi **Temperature Limits:** -5 to 300°F **Top Connection:** 1/4" NPT

Process Connection: 1/4" or 1/2" NPT

Ordering Code: 25-MNN2-_

Ex: 25-MNN2-25

D. Process Conn.

25 =1/4" NPT

50 = 1/2" NPT 75 = 3/4" NPT

10 = 1" NPT

X. Process Connection

25 = 1/4" NPT 50 = 1/2" NPT

^{*} Viton is furnished for Vacuum, 30 psi and Compound 30-0-15 psi ranges.

GAUGE ACCESSORIES



TABLE 1 - PRESSURE SNUBBERS						
STYLE CODE PSN	HOUSING MATERIAL CODE B S	HOUSING MATERIAL Brass 303 S.S.	NPT CODE 25 50	NPT 1/4" 1/2"	AT 1,5	ATING 70°F 00 psi 00 psi
TABLE 2						
POROSITY SYMBOL CODE E D G *SSU - Saybolt S		t Oil (30 to 225 SSU*) SSU) ases).).	PORE OPI MEAN 0013 0025 0004	ENING MAX. .0025 .005 .0009
For complete Catalog No. use Coding from Table 1 & 2. EX: PSN-B-25-E = Brass Housing 1/4" NPT, E Porosity Disc.						

NEEDLE VALV	/ES		
CAT. NO. 25NVBR 25NVSS 50NVBR 50NVSS	SIZE 1/4" NPTF X 1/4" NPTF 1/4" NPTF X 1/4" NPTF 1/2" NPTF X 1/2" NPTF 1/2" NPTF X 1/2" NPTF	MATERIAL Brass 304S.S. Brass 304S.S.	RATING 600 psi & 300°F 4000 psi & 150°F 600 psi & 300°F 4000 psi & 150°F
SYPHONS			
	SIZE 1/4" NPTM x 1/4" NPTM 1/4" NPTM x 1/4" NPTM on available 1/4" NPTM x 1/4" NPTM ule 40. Schedule 80 available on reque	MATERIAL Iron Brass Brass - Model ASY-14B st.	RATING 300 psi & 300°F 400 psi & 300°F Iron - Model ASY-14S
GAUGE COCK	(S		
CAT. NO. TC-14 TC-34 MTC-14 LC-12 BTC-12 BTC-14 BMTC-14 BMTC-14 BLC-12 BLC-14	SIZE 1/4" NPTF x 1/4" NPTF 3/4" NPTF x 3/4" NPTF 1/4" NPTF x 1/4" NPTM 1/4" NPTF x 1/4" NPTF 1/2" NPTF x 1/2" NPTF 1/2" NPTF x 1/2" NPTF 1/4" NPTF x 1/4" NPTF 1/4" NPTF x 1/4" NPTF 1/4" NPTF x 1/4" NPTM 1/2" NPTF x 1/2" NPTF 1/4" NPTF x 1/4" NPTF	MATERIAL Brass Brass Brass Brass Brass Forged Brass Forged Brass Forged Brass Forged Brass Forged Brass Forged Brass	RATING 200 psi Hydraulic 150 lb. Steam 150 lb. Steam 150 lb. Steam 150 lb. Steam
BALL VALVES	6		
CAT. NO. BV25 BV50 MBV25	SIZE 1/4" NPTF x 1/4" NPTF 1/2" NPTF x 1/2" NPTF 1/4" NPTF x 1/4" NPTM	MATERIAL Chrome Plated Brass Chrome Plated Brass Chrome Plated Brass	450 psi & 250°F

TEMP/PRESSURE TEST PLUGS

Weiss Temperature/Pressure Plugs allows for quick, efficient and accurate testing of hydronic pipe lines throughout HVAC systems. Offered in both nordel (blue cap) for hot and chilled water and neoprene (red cap) for natural gas. Our plugs are consistently rated at 1000 psi. The self-sealing core insures long life and continuous service.



CAT. NO.	DESCRIPTION	BODY & CAP	IDN
BP25-NR	1/4" NPT Nordel	Brass	90101
BP25-NP	1/4" NPT Neoprene	Brass	90102
BP50-NR	1/2" NPT Nordel	Brass	90103
BP50-NP	1/2" NPT Neoprene	Brass	90104
BP25L-NR	1/4" NPT Nordel w/ 1 3/4" Lag	Brass	90105
BP25L-NP	1/4" NPT Neoprene w/ 1 3/4" La	g Brass	90106

CAT. NO.	ACCESSORIES	IDN
TPK	Test Kit	90120
GA18	Gauge Adapter	90125
PT220	1" Dial Pocket Test 0/220°F	90130
PT125	1" Dial Pocket Test 0/125°F	90110
TL25-030-4L	2 1/2" Gauge 0-30 psi	90131
TL25-160-4L	2 1/2" Gauge 0-160 psi	90134





Send for Weiss Literature to match your specific application.





SG-9/08 SSG-9/13 SMX-5/17 HVAC-10/13 PHC-1/15

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