Weiss Instruments, the industry leader in commercial thermometers presents our complete line of Digital Temperature Indicators. Featured are two exclusive technologies, Light Powered LCD thermometers and Direct Powered LED thermometers. Our patented "Solar Only" light powered thermometers are the standards in the industry with the lowest light levels and a variety of styles that compliment OEM Equipment. Our New Generation LED Thermometers feature a new transformer-less design, which eliminates the outboard transformer allowing 120V direct power while offering features not found elsewhere.

All Weiss digital thermometers feature our exclusive "sealed sensor" technology. A unique design incorporates a fully (food grade) potted sensor combined with our press-fit sensor bulb stopper, keeps moisture out and the temperature right. With over one million units in the field since 1992, the Weiss sensors are a proven design.Completely food grade construction, the sensor can be custom designed for various lengths, bulb materials, sizes and insertion configurations.

Designed for commercial installations, built with NSF accuracy and compliance, Weiss has digital thermometers for every application.

This application finder highlights typical Models for these installation:

Display Refrigeration for Supermarkets

NSF Model	Model No.	Power	Size / Mounting
SD	25SD	30 Lux	1" x 4" / Surface
SD	20SD	50 Lux	2" Round / Various
SD	56SD	15 Lux	2" Round (56mm sq. front) / Front Flange or U-Clamp

Walk-in Coolers

SD	20SD	50 Lux	2" Round / Various
SD	72SD	30 Lux	21/2" Round (72mm sq. front)/Front Flange or U-Clamp
DT	20DT-F	120 or 12 Vac	2" Round / Front Flange or U-Clamp

Reach-in Refrigeration / Freezers

SD	20SD	50 Lux	2" Round / Various
SD	56SD	15 Lux	2" Round (56mm sq. front) / Front Flange or U-Clamp
DT	20DT-F	120 or 12 Vac	2" Round / Front Flange or U-Clamp
XT	XT11-S	120 or 12 Vac	58mm x 25mm / Snap-in
LC	LC58	1.5V Battery	58mm x 25mm / Snap-in

Food Warming

SD	56SD	15 Lux	2" Round (56mm sq. front) / Front Flange or U-Clamp
DT	20DT-F	120 or 12 Vac	2" Round / Front Flange or U-Clamp
XT	XT11-S	120 or 12 Vac	58mm x 25mm / Snap-in

Dishwashers

DT	20DT-F	120 or 12 Vac	2" Round / Front Flange or U-Clamp
XT	XT11-S	120 or 12 Vac	58mm x 25mm / Snap-in

Light Powered Thermometers

Weiss Instruments is the Patent Holder #5196781, which features a no battery design and reliable readings in very low light applications. The LCD (Liquid Crystal Display) is bold and easy to read. The extra benefit of these units is that being "Self - Powered" they need no power line or batteries to operate and therefore no need for periodic maintenance. *Advantages of Light Powered Only vs Battery Back-up Design :*

a. The battery will eventually fail, making the unit unreliable.
b. The battery will leak toxic material aftersome time.
c. Limited ambient temperature ratings - batteries don't work well in cold temperatures
d. Service problems in the field.

25SD

CASE: 1" x 4" Black Surface Mounting
Black or Silver Mask for Logos
RANGE: 40-0-160°F or 40-0-70°C
DISPLAY: 3/8" LCD
LIGHT RATING: 30 Lux to 50,000 Lux
SENSOR LENGTH: To 40Ft.
ENVIRONMENT: Splash Proof with Gasket
OPTIONS: White Case Model 25SD-W
Black or White Gasket (Food Grade)
ACCURACY: NSF Accuracy for food zone applications. (±2°F between -20 to +60°F)
(±1°C between -29 to +15°C)

NSF Model SD

56SD-F

NSF Model SD

CASE: 2" Round (56mm Sq. Front)
Front Flange - Black Mask for Logos
RANGE: 40-0-230°F and 40-0-110°C
HT: Switchable
40-0-160°F or 40-0-70°C
LT: F/C Switch Optional
DISPLAY: 3/8" LCD (1/10° display up to 200°F, HT only)
LIGHT RATING: 15 Lux to 50,000 Lux
SENSOR LENGTH: To 35Ft.
ENVIRONMENT: Waterproof from Front
OPTIONS: U-Clamp Case, Model 56SD-U
ACCURACY: 1% of reading ± 1 °F or
± .5°C

72SD-F

CASE: 2½" Round (72mm Sq. Front)
Front Flange - Black and Silver for Logos
RANGE: 40-0-160°F or 40-0-70°C
DISPLAY: 1/2" LCD - 1/10° display
LIGHT RATING: 30 Lux to 50,000 Lux
SENSOR LENGTH: To 40Ft.
ENVIRONMENT: Splash Proof
OPTIONS: U-Clamp Case, Model 72SD-U
Black Gasket (Food Grade)
ACCURACY: NSF Accuracy for food zone applications. (±2°F between -20 to +60°F)
(±1°C between -29 to +15°C)

NSF Model SD

20SD-FS

CASE: 2" Round (see Selection Table, Pg. 6)
Internal White Mask for Logos
RANGE: 40-0-160°F or 40-0-70°C
DISPLAY: 3/8" LCD
LIGHT RATING: 50 Lux to 50,000 Lux
SENSOR LENGTH: To 40Ft.
ENVIRONMENT: Waterproof from the Front

NSF Model SD

New Super Economy Digital Panel Meter

Introducing the LC58, the lowest cost Digital Thermometer available today. Designed to replace the old drum type thermometers, the LC58 snaps into a 58mm panel cutout. It's unique front loading battery compartment makes battery changing a snap. When low costs are required, the LC58 competes with mechanical instruments anyday.

LC58

NSF Model LC

CASE: Black ABS rectangular (58mm x 25mm) snap-in (Drum type)
RANGE: 40-0-190°F or 40-0-109°C
CALIBRATION: ± 15°F
DISPLAY: 3/8" LCD, Ambient Temp. -35 to 160°F
POWER: 1.5V LR44 Watch type battery, replaceable from the front. Battery life 18-24 months (under normal conditions)
SENSOR LENGTH: To 40Ft.
ENVIRONMENT: Wipe Down

LED Digital Thermometers

The New Generation LED Thermometers include our exclusive Direct Power feature eliminating the need for an external transformer. Powered by 120Vac, (230Vac–12Vac, optional) not only makes the unit easier to install but adds reliability and life to the instrument. With UL and NSF Listing, both designs can be ordered with special display update times to eliminate temperature fluctuations from repeated door openings. Available with 1 second, 1 minute or 3 minute display update times. Each unit now has detachable sensor and power fast-ons to speed up installation. With an extended range of –40 to 230°F our LED units are well suited to many applications.

20DT-F

NSF Model DT

CASE: Red Lexan 2" Round Front Flange - Sonic Welded Back Plate
RANGE: 40-0-230°F or 40-0-110°C Switchable
DISPLAY: 1/2" LED
POWER: 120Vac or 12Vac (230Vac optional UL Listed, Fast-on connectors
DISPLAY UPDATE: 1 Second, 1 Minute or 3 Minutes
SENSOR LENGTH: To 99Ft.
ENVIRONMENT: Waterproof from the Front
OPTIONS: U-Clamp Case, Model 20DT-U

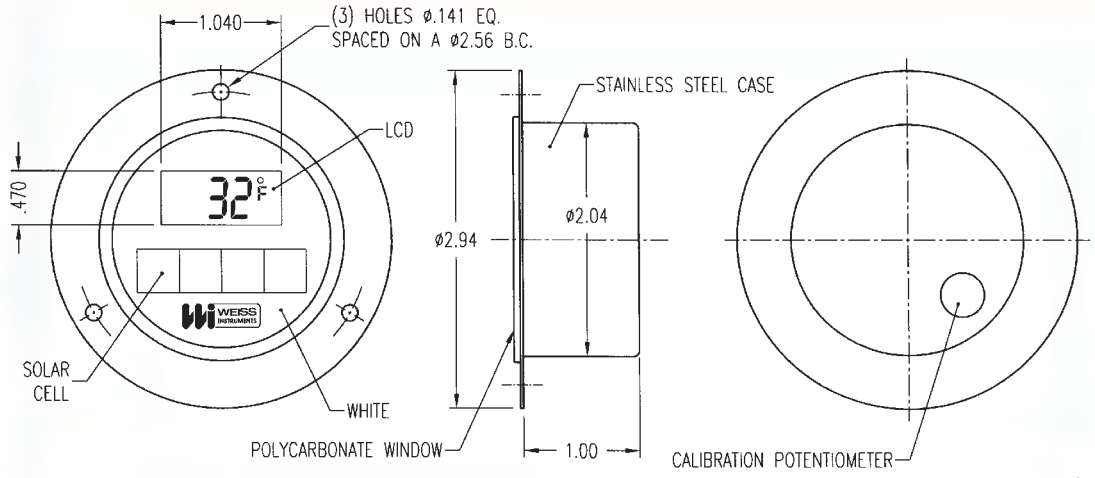
XT11S

CASE: Red Lexan Rectangular (58mm x 25mm) snap-in (Drum type)
RANGE: 3 Digits:40-0-230°F or 40-0-110°C
2 Digits:40-0-99°F or 40-0-99°C
DISPLAY: 1/2" LED
POWER: 120Vac or 12Vac (230Vac optional) UL Listed, Fast-on connectors
DISPLAY UPDATE: 1 Second, 1 Minute or 3 Minutes
SENSOR LENGTH: To 99Ft.
ENVIRONMENT: Waterproof from the Front

NSF Model XT

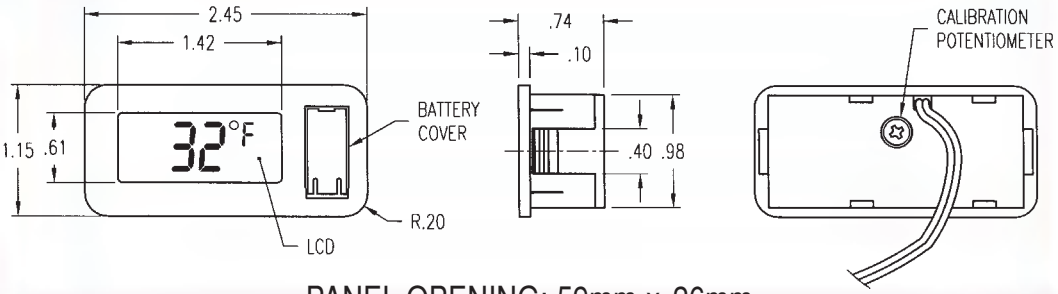
Dimensions

20SD-FS



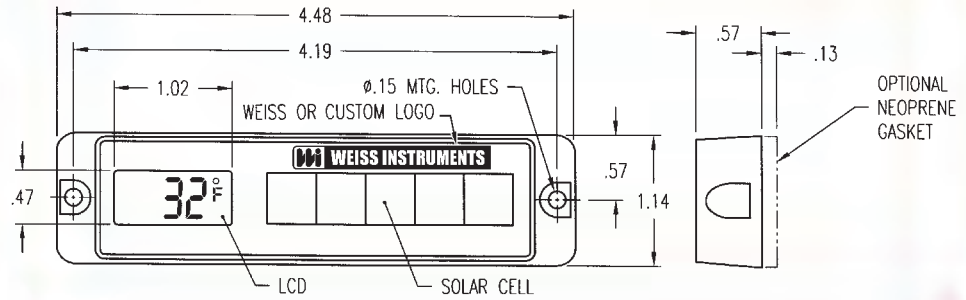
PANEL OPENING: 2.06 DIA.

LC58

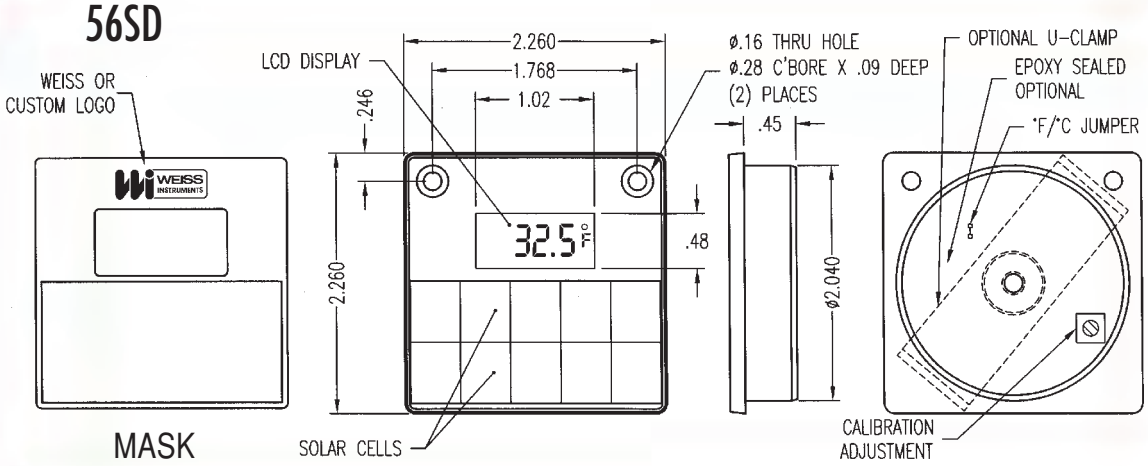


PANEL OPENING: 59mm x 26mm

25SD

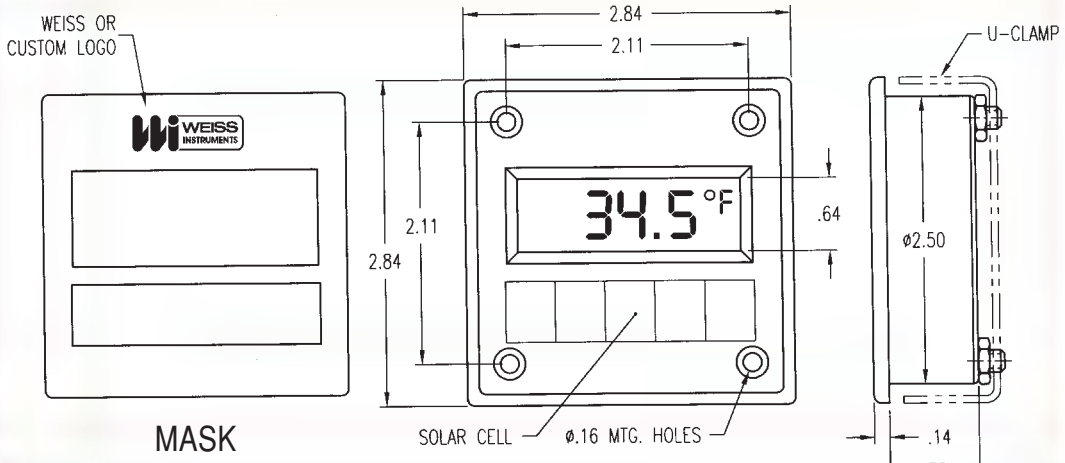


56SD



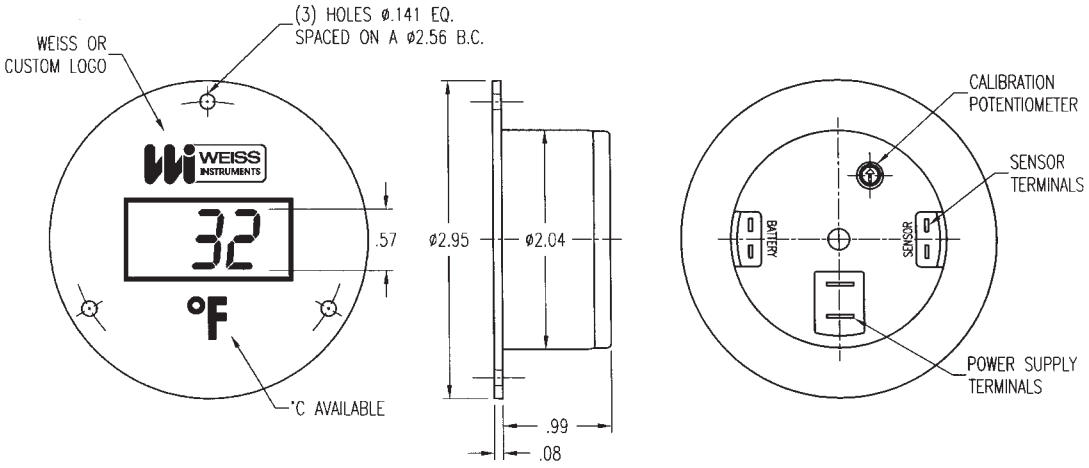
PANEL OPENING: 2.06 DIA.

72SD



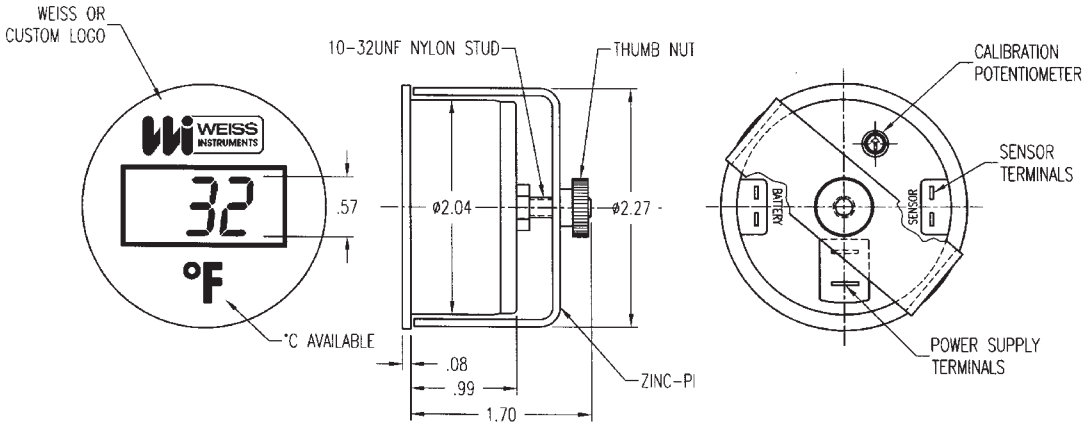
PANEL OPENING: 2.609 DIA.

20DT-F



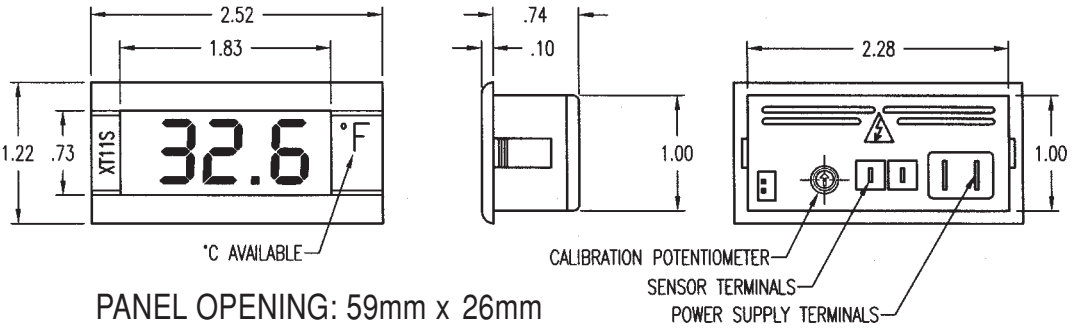
PANEL OPENING: 2.06 DIA.

20DT-U



PANEL GASKET - STANDARD

XT11S



PANEL OPENING: 59mm x 26mm

Sensors

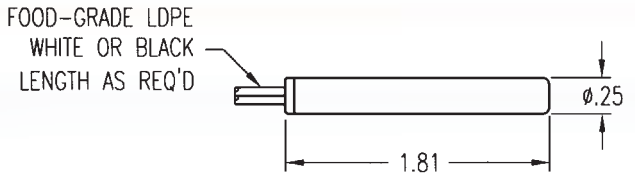
The Weiss exclusive "sealed sensor" technology is standard on all Digital Thermometers. A unique design incorporates a fully (food grade) epoxy potted sensor combined with our press-fit sensor bulb stopper. This results in keeping moisture out and the temperature right.
With over one million units in the field since 1992, the Weiss sensors are a proven design. Completely food grade construction, the sensor can be custom designed for various lengths, bulb materials and sizes.

Cat. No.	Description	System Wire	Rating	Std. Lengths	Applicable To
18NB	1.8" x 1/4" Nickel Plated Brass	LDPE White or Black	NSF 300V 105C	03FT, 05FT, 08FT	All LCD - 20DT - 12V
18SS	1.8" x 1/4" Stainless Steel	LDPE White or Black	NSF 300V 105C	03FT, 05FT, 08FT	All LCD - 20DT - 12V
30SS*	3.0" x 1/4" Stainless Steel	LDPE White or Black	NSF 300V 105C	03FT, 05FT, 08FT	All LCD - 20DT - 12V
40SS*	4.0" x 1/4" Stainless Steel	LDPE White or Black	NSF 300V 105C	03FT, 05FT, 08FT	All LCD - 20DT - 12V
N6U	7mm x 30mm Lexan	Black Double Insulated	UL/NSF 300V 105C	06FT	20DT (120V) & XT11S

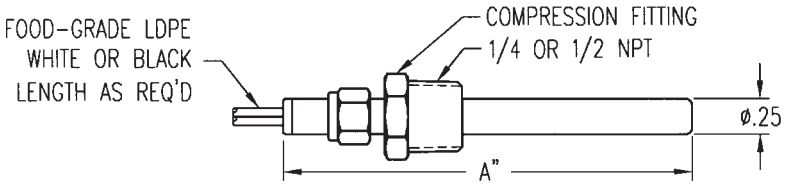
*Required Sensors for adaptive compression fittings and thermowells.

Compression Fittings and Thermowells

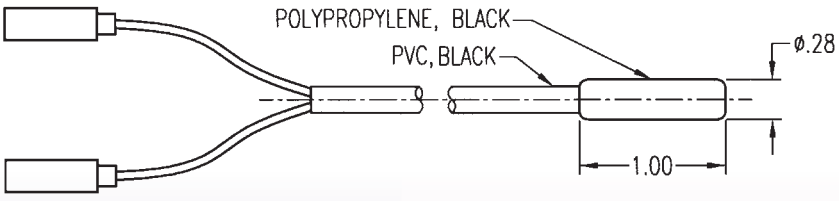
Cat. No.	Description
019-0001	1/4" NPT Compression Fitting
019-0002	1/2" NPT Compression Fitting
B25-75BS	3/4" NPT Brass Thermowell / 1.5" Insertion
B25-75SS	3/4" NPT Stn Steel Thermowell / 1.5" Insertion



18 NB: NICKEL-PLATED BRASS (STANDARD)
18 SS: STAINLESS STEEL



30SS: 316 STAINLESS STEEL, A=3.0"
40SS: 316 STAINLESS STEEL, A=4.0"



How to Order LED Thermometers

Model No.	Mounting	Power	Display	Update Time*
20DT	-U = U-Clamp -F = Front Flange	0 =12Vac/DC 4 =120 Vac	F =°F C =°C	0 = 1 Second 1 = 1 Minute* 3 = 3 Minute*
XT11S	Snap – in	0 =12Vac 4 =110 Vac	0=2 Digit °C 1=2 Digit °F 2=3 Digit °C 3=3 Digit °F	0 = 1 Second 1 = 1 Minute* 2 = 3 Minute*

* Display changes 1°F e very 1 or 3 minutes on increaseing temperature –on decreasing temperature, the display will change every second, regardless of the update time.

Order Entry Example: 20DT - F - 4 F 0

Front Flange 120Vac. °F 1 Second Update

How to Order LCD Light Powered Thermometers

Model No's	+	Ranges	+	Sensors	+	System Lengths
25SD		40-0-160F		18NB		03FT
20SD		40-0-160F		18SS		05FT
56SD-HT		40-0-230F&C[1]		30SS[2]		08FT
56SD-LT		40-0-160F or C[1]		30SS[2]		08FT
72SD		40-0-160F&C		40SS[2,3]		*XXFT
						XXFT BAT**

* See item for system limits ** Code for Battery Backup XX = Length

1. F/C Switchable
2. Required for Compression Fitting
3. Required for Compression Fitting and Thermowell

Example:

Model	Range	Sensor	System Length
25SD	40-0-160F or 40-0-70C	18NB	05FT

WARRANTY Seller warrants that all goods shall be of good quality and workmanship free from defects and conforming to all the specifications illustrated in this catalog. These warranties shall run to buyer, its successors, assigns, customers and users of the goods.

Seller agrees, at its own expense and whenever and as often as requested by Buyer, to furnish and deliver to Buyer satisfactory evidence showing that each of said drawings and specifications have been fully and completely complied with and the goods supplied here under fully and completely conform to such specifications.

In addition to remedies otherwise available to Buyer, Seller agrees, if requested by Buyer, to replace, repair, or make good, at Seller's cost, any defective or damaged goods furnished by Seller, for a period of one (1) year after date of acceptance by Buyer.

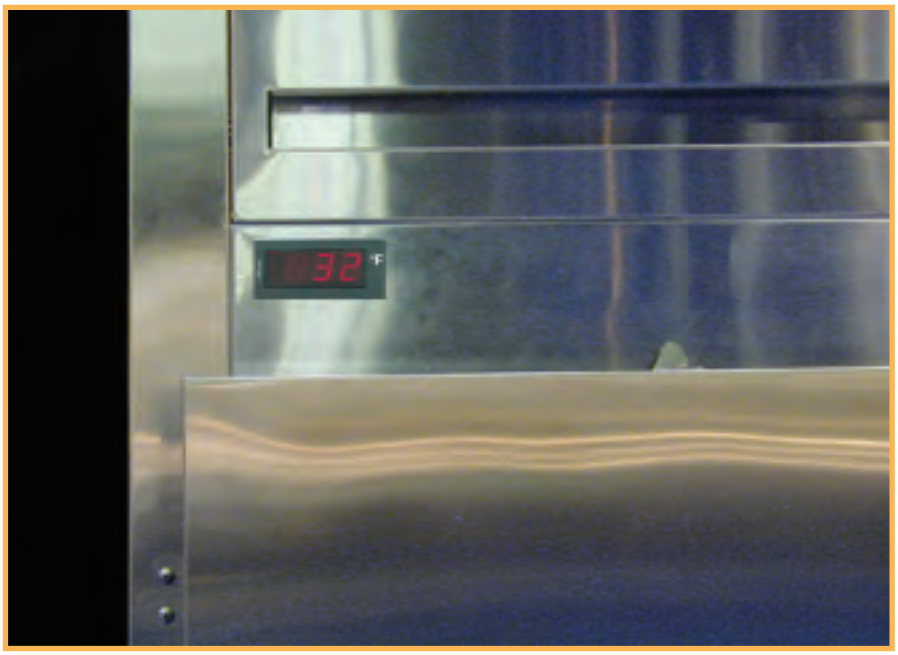
RETURNED GOODS Before returning goods to Weiss Instruments, a return authorization (RA) number must be obtained from the factory. This number must appear on both cartons and accompanying paperwork.

The continuous improvement of Weiss products can cause some variations in the information included in this catalog, even without notice.

LED Sensors

120 Vac Power	12 Vac /DC Power		
N6U - NTC - XXFT 7x30mm Plastic Sensor	18NB - NTC - XXFT 1.8" x 1/4" Nickel Plated Brass	30SS - NTC - XXFT 3.0" SST x 1/4"	40SS - NTC - XXFT
N6U - NTC - XXFT 7x30mm Plastic Sensor			

Display Refrigeration for Supermarkets



Reach-in Refrigeration / Freezers

INTRODUCING THE 24DT-SP-LT THERMOMETER & LIGHT SWITCH FOR WALK-INS

- ✔ LED Temp Display with °F/°C switch
- ✔ 1 second,1 minute or 3 minute display update
- ✔ Light switch (15A) and SST J-Box Mount Cover
- ✔ 120V Direct Power
- ✔ Optional Battery back-up
- ✔ Save on installation costs

c UL us

Now you can combine your Light Switch and Digital Thermometer in one easy to install package. The waterproof "elbow" engaged illuminated light switch allows operators to turn on the walk-in light easily, even when their hands are full. The industrial duty light switch is rated at 15A and includes optional gasket for outdoor use.

The continuation of the **evolution** in Digital Thermometry from Weiss Instruments, the leader in Temperature Measurement and Control.

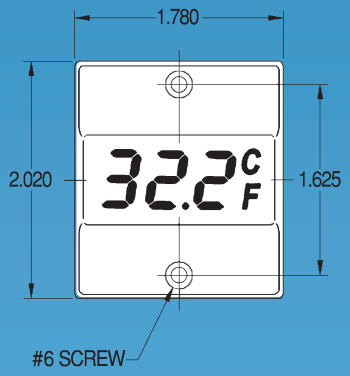
Cat. No.	Description	Power	°F/°C	Update
24DT	0=Thermometer only	0=12Vac./DC 4=110Vac. 5=230Vac.	F=°F -40/230°F C=°C -40/110°C	0=1 sec. 1=1 min. 3=3 min.
Ex: 24DT-04F1	0 – 110V – °F – 1 min.			
Cat. No.	**Description**	**Power**	**°F/°C**	**Update**
24DT	S=Switchplate	0=12Vac./DC 4=110Vac. 5=230Vac.	F=°F -40/230°F C=°C -40/110°C	0=1 sec. 1=1 min. 3=3 min.
Ex: 24DT-S4F1	S – 110V – °F – 1 min.			
Cat. No.	**Description**	**Power**	**°F/°C**	**Update**
24DT	L=Switchplate w/ Lighted Switch	0=12Vac./DC 4=110Vac. 5=230Vac.	F=°F -40/230°F C=°C -40/110°C	0=1 sec. 1=1 min. 3=3 min.
Ex: 24DT-L4F1	L – 110V – °F – 1 min.			

WEISS INSTRUMENTS INTRODUCES THE 24DT THERMOMETER

- ✔ LED Temp Display with °F/°C switch
- ✔ 1second, 1minute or 3 minute update
- ✔ Optional light switch and SST cover
- ✔ 120V Direct Power
- ✔ Optional battery back-up
- ✔ Popular back mounting
- ✔ Low Cost

c US

NSF COMPONENT MODEL DT



First there was the *Ashcroft* 2100E, then came the *CPI* TI-6000 followed by the *Miljoco* ED175-2403 "Little Red". Now the ev•o•lu•tion is now complete with the introduction of the Weiss 24DT. The "smart thermometer" features leave the competition in the dark ages. Features such as disconnectable sensor power, smart updates, °F/°C switchable and no more transformers, make the 24DT the new choice in LED temperature indicators.

American Heritage Dictionary defines: ev•o•lu•tion - The gradual developement of something into a more complex or better form.

Part Numbers

Cat. No.	Description	Power	°F / °C	Update
24DT	0=Thermometer	0=12Vac./DC 4=120Vac. 5=230Vac.	F= °F -40/230 °F C=°C -40/110 °C	0=1 Second 1=1 Minute 3=3 Minute

Ex: 24DT-04F1 – 0 4 F 1

0 – 120V – °F – 1 Min.

Complete with 5 Ft. Sensor

WEISS INSTRUMENTS, INC.

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