

# WEISS INSTRUMENTS

## 24DT DIGITAL THERMOMETER

### INSTALLATION AND OPERATING INSTRUCTIONS

**PLEASE READ THIS MANUAL FULLY!**

• This manual is part of the product and should be kept near the device for easy and quick reference.

#### 1. GENERAL DESCRIPTION

The 24DT is an electronic digital thermometer which displays the current temperature and also logs the maximum and minimum temperatures experienced. With the use of an Optional momentary switch the min. / max. Temperatures can be displayed at the touch of a button and reset if required. (Switch sold separately) A 9 Volt battery can supply backup power for temperature readings when there is a blackout. (Battery bracket and harness sold separately)

#### 2. INSTALLATION

The instrument is equipped with fast-on type spade terminals with probe connections separated from the power supply connections. To install the instrument proceed as follow:

1. Attach .250 inch Fast-on connectors to the wires for the interior light.
2. Wire the switch according to the drawing Fig. 1.
3. Place the probe where it has to measure the temperature. Be sure to leave slack so as to have some strain relief. Probe bulb should have the end up vertically or on at least a slight angle to try to prevent water intrusion into the sensor. Were a sharp bend is required try to loop the probe wire in a 1 1/2 "circle.
4. Connect the probe terminals to the two small (.110 inch) fast-on connectors as indicated.
5. **Connect the power supply cables to the large (.250 inch) fast-ons. (N or NEUTRAL) to the fast-on on the LEFT and (L OR HOT) to the fast-on on the RIGHT. SEE fig.2**
6. There should be .63mA fuse on the Line.
7. If using the optional 9V battery back up install it on the connectors at the top left of the thermometer.

#### 3. DRAWINGS

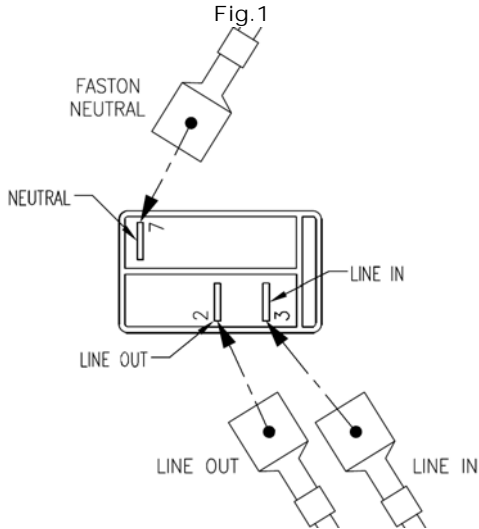
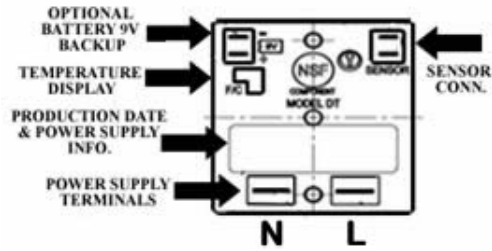


Fig. 2



NOTE: POWER SUPPLY AS STATED ON UNIT LABEL!

#### 4. ALARM DISPLAY

MESSAGE	CAUSE
PO	OPEN PROBE OR SWITCH CLOSED
P1	NO PROBE CONNECTED

#### SAFETY PRECAUTIONS

- Always ensure that the probe is connected to the instrument before the power supply is connected and turned ON.
- **Check the supply voltage is correct before connecting the instrument. (12V, 120V, 230V) (N or NEUTRAL) to the fast-on at the LEFT (L OR HOT) to the fast-on at the RIGHT. SEE fig.2**
- **The probe is double insulated for safety on models with 110V and 230V power supply.**
- The instrument is designed for panel mounting and electrical connections must be positioned inside a properly protected board/panel.
- Do not expose to water or moisture: use the instrument only within the operating limits avoiding sudden temperature changes with high atmospheric humidity to prevent the formation of condensation.
- Warning: disconnect all electrical connections before any kind of maintenance.
- The instrument shall never be opened.
- In case of failure or faulty operation send the instrument back to the distributor or Weiss Instruments (see address) with a detailed description of the fault.
- Be sure that the wires for probes and for the power supply are separated and far enough from each other, without crossing and coiling.



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MODEL DT



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See the website for warranty information.