DIGIT-STAT 30120 UNIVERSAL DIGITAL TEMPERATURE GAUGE
FOR HYDRONIC HEATING/SOLAR HEATING/GEOTHERMAL SYSTEM

DIGITAL TEMPERATURE GAUGES 30120

Infloor Sales & Service.Digital Temperature gauge replaces two mechanical temperature gauges as it can simultaneously displays the accurate temperature of two locations such as the supply and return piping on a hydronic heating system. When 24VAC is supplied, the lithium battery enable the unit to work in case of power failure. 30120 is also ideal for any application that requires quick and accurate response to temperature change, an easy to read display and a wide temperature range.

FEATURES:
- Dual Large LCD (Liquid Crystal Display) to show supply and return temperature,
- Min/Max memory can be selected for both OUT(Supply) and IN (Return) water temperature since the last time
- RESET button was pressed
- Celsius or Fahrenheit switch on the front unit.
- Dual power input: 24VAC or Lithium Battery. When both inputs are applied, 24VAC has priority over lithium battery.
- Frequent sample rate dictate any change in temperature instantly
- Easy installation

SPECIFICATIONS:
- Temperature range: -58 to 302°F (-50 to 150°C)
- Resolution: 0.1°F(0.1°C)
- Accuracy: ±1°C / ±2°F
- Sample rate: 3 Secs.
- Input: 2 x 10K ohm thermistor probe model: P-03 (designed to strap on a pipe or insert into a temperature well)
- Operating Voltage: 24VAC or Lithium Battery (included, last for over 3 years)
- Size: 3.5” x 2.0” x 0.9” (88.9mm x 50.8mm x 22.86mm)
- Enclosure: Flame-retardant plastic
- Operating Temperature: 32 to 122°F(0 to 50°C)
- Weight: 0.11lbs (50g)

UNIVERSAL SENSOR PROBE
(THERMISTOR) Model: 30121

The Infloor Sensor Probe is engineered to ensure long life and rapid response. It is designed to strap on a pipe or insert into a temperature well. 30121 is specially designed for use with 30120 and other controls that require 10K ohm thermistors.

SPECIFICATIONS:
- Sheath: Copper
- Lead: 10” of 20 AWG heat resistance green wire
- Dimension: 3/8” OD x 13/16” length (9.5mm OD x 20.6mm)
- Weight: 0.02lb (10g)
- Operating range: -58 to 302°F (-50 to 150°C)
- Sensor: 10K ohm @ 77°F (25°C ± 1%) thermistor

MODEL | DESCRIPTION
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30120 | Digital temperature gauge with two universal sensor probes
30121 | Universal sensor probe (high range)

INSTALLATION:

REMOVING THE FRONT COVER

Push down the plastic tab located on top of the enclosure with finger or small screwdriver to release the lock. Swing the front cover away from the base using the bottom edge as the pivot.

MOUNTING THE 30120 ON THE WALL

The 30120 can be mounted on the wall (or wooden board) using two #6 screws. Insert the screws through the mounting holes on the base and fasten the screws to the wall.
OPERATION OF THE BUTTONS ON THE FRONT COVER:

MAX-MIN
From the normal temperature display mode (no wording such as MAX or MIN on the LCD), press MAX-MIN button once to display the recorded maximum temperature of OUT (supply) and IN (return) piping. MAX appears in the temperature LCD’s.

Press MAX-MIN button again to toggle to the recorded minimum temperature of OUT (supply) and IN (return) piping. MIN appears in the temperature LCD’s.

Press MAX-MIN button again to return to the normal temperature display mode.

RESET
- Press RESET button to reset both the maximum and minimum temperatures in the memory.

°C/°F
- Press the °C/°F button to toggle between °C and °F.

OTHER OPERATION ISSUES:

OUT OF RANGE
- If the temperature is under -58°F (-50°C), “LLL” will be displayed.
- If the temperature is over 302°F (150°C), “HHH” will be displayed.

LOW BATTERY INDICATOR
- If the battery is low, the symbol will be flashing.

Change the battery as soon as possible.

MOUNTING THE SENSOR:
The sensor 30121 is designed to strap on a pipe or insert onto a temperature immersion well.

Sensors should be strapped to the pipe with cable tie. The flat side of the sensor should be resting on the pipe. In addition, they should be covered with a layer of insulation to minimize the effects of ambient temperature for a more reliable temperature reading.

The sensor 30121 can also be inserted onto a 3/8” (10mm) or ½” (12.7mm) ID temperature well.

Note: Do not run sensor wires parallel to other electrical wiring or telephone wires. In case there is a strong source of electromagnetic interference, twisted pair 20AWG wire is recommended.