PRO AMP systems

DIGITAL TEMPERATURE GAUGE / DTG

SPECIFICATIONS

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CK: - 1998/012610/23
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The DTG (Digital Temperature Gauge) is a versatile instrument, designed specifically for diesel engines.

Features

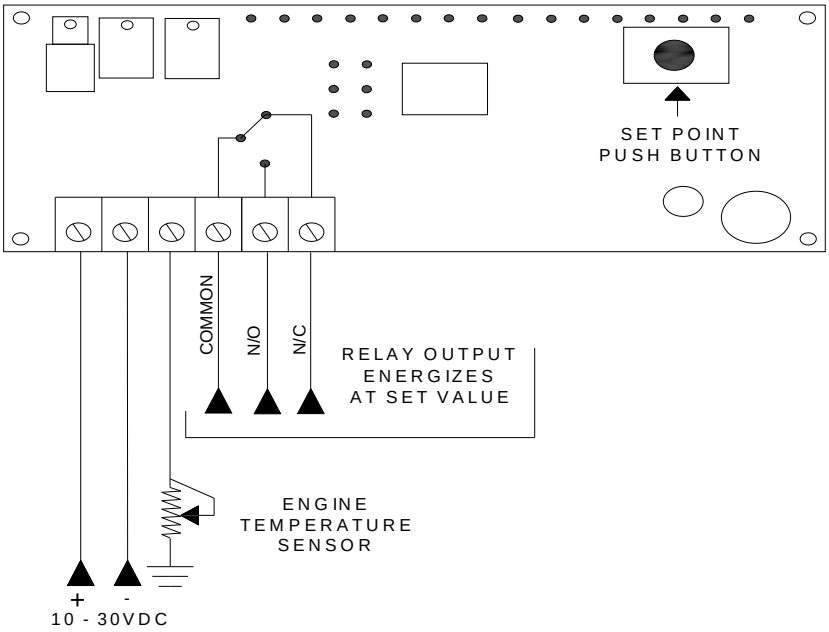
- Relay output set point adjustable from 30 →120°C
- Multi voltage supply input.
- Relay output SPDT energises above set point (over / under temperature)
- No batteries required.
- Memory Backup.
- Sensor disconnected (sensor fault) display.
- Panel door mounted.
- Display indication example : 98 Degrees C

Digital Temperature Gauge Specifications	
DC Supply Voltage	10 → 30VDC
Relay output set point	From 30°C to 120°C
Relay output SPDT	1A at 30 VDC
Operating Temperature	55°C
Operating Humidity	0 → 90% RH, non-condensing
Memory Backup	Non-volatile memory EEProm
Sensor Input	238 → 0Ω = 5 → 120°C
LCD Viewing area	64.6mm x 16mm
LCD Number of characters	16 characters x 2 liners
Display colour	Dark Blue
Background Colour	Yellow - Green
Dot Sizes	0.55mm x 0.65mm
Terminals	2.5mm plug in screw clamp
Mounting Method	Panel Door
Current Consumption (max)	120 mA max
Adjustable set point via	Tactile switch on PC Board
Input signal vs Display valve delay	±1000 m/s

How to set the relay output set point?

Simply press and hold the small push button for ± 6 sec, located on the PC Board behind the digital display. The display will change from indicating the current temperature input from the sensor, to a factory default value of 95°C. Continue to hold the push button until the default value changes, the value will increase by increments of 1°C, from the default value until 120°C is reached, should you continue to hold the push button, it will start from 30°C and continue to increase in value again. Once the desired temperature set point is reached, release the push button. The set point is now set and after a few seconds will return to the main display (current temperature from sensor). Note there is no hysteresis (differential) for the set point value. For example if 100°C is entered and the temperature reaches 100°C, the relay will energise and remain so until the temperature drops below 100°C. Since the relay output has both N/O and N/C contacts, as well as a wide temperature range set point, using either the N/O or N/C contacts, the control circuit can be manipulated such that the relay output could be used for either under temperature or over temperature.

DIGITAL TEMPERATURE GAUGE (DTG) WIRING DIAGRAM



PANEL DOOR CUT OUT DIMENSIONS