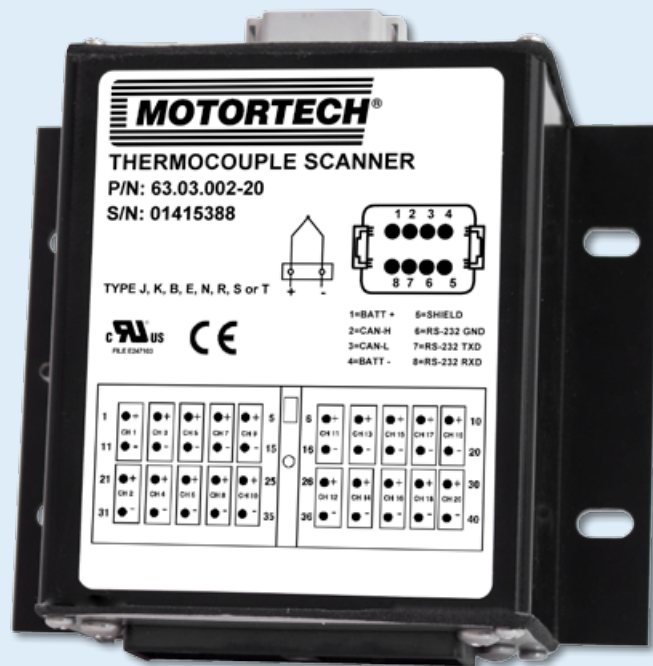# TempScan20

MOTORTECH® Temperature Module with 20 Channels

TempScan20
MOTORTECH TEMPERATURE MODULE

Gas Engine Control Systems

reliable • efficient • worldwide

TempScan20
MOTORTECH Temperature Module with 20 Channels

The TempScan20 temperature module monitors up to 20 thermocouples and provides the temperature information to the PowerView3 HMI module via CANopen.

- Channels are independently configurable as Type B, E, J, K, N, R, S or T thermocouples

- Temperature information can include
  o Exhaust temperature
  o Winding temperature
  o Fluid temperature

- No additional programming or configuration required

- Integral diagnostics determine thermocouple integrity

- All channels are fully isolated from the CAN line and from the power supply.

- The temperature module features rugged packaging and watertight connectors for an IP65 rating.

Technical Data

General
- 20 channels, independently configurable for B, E, J, K, N, R, S or T type thermocouples
- Scan rate of 100 ms per channel, total sweep time maximum 2.2 seconds
- 150 ppm/°C of span (maximum) thermal drift
- Digital isolation is 500 VDC from input to ground. Three way isolation is provided for the CAN line, inputs and power supply.
- Provides reverse polarity protection. Power supply input section protects against transient surges and short circuits and is isolated from thermocouple inputs.
- Open circuit, frozen data, over or under temperature and high temperature shutdown detection
- 9 – 32 VDC power supply
- -40 °C up to 85 °C (-40 °F up to 185 °F) operating temperature
- CSA certified (Class I, Div. 2, Group A, B, C, D; T4)
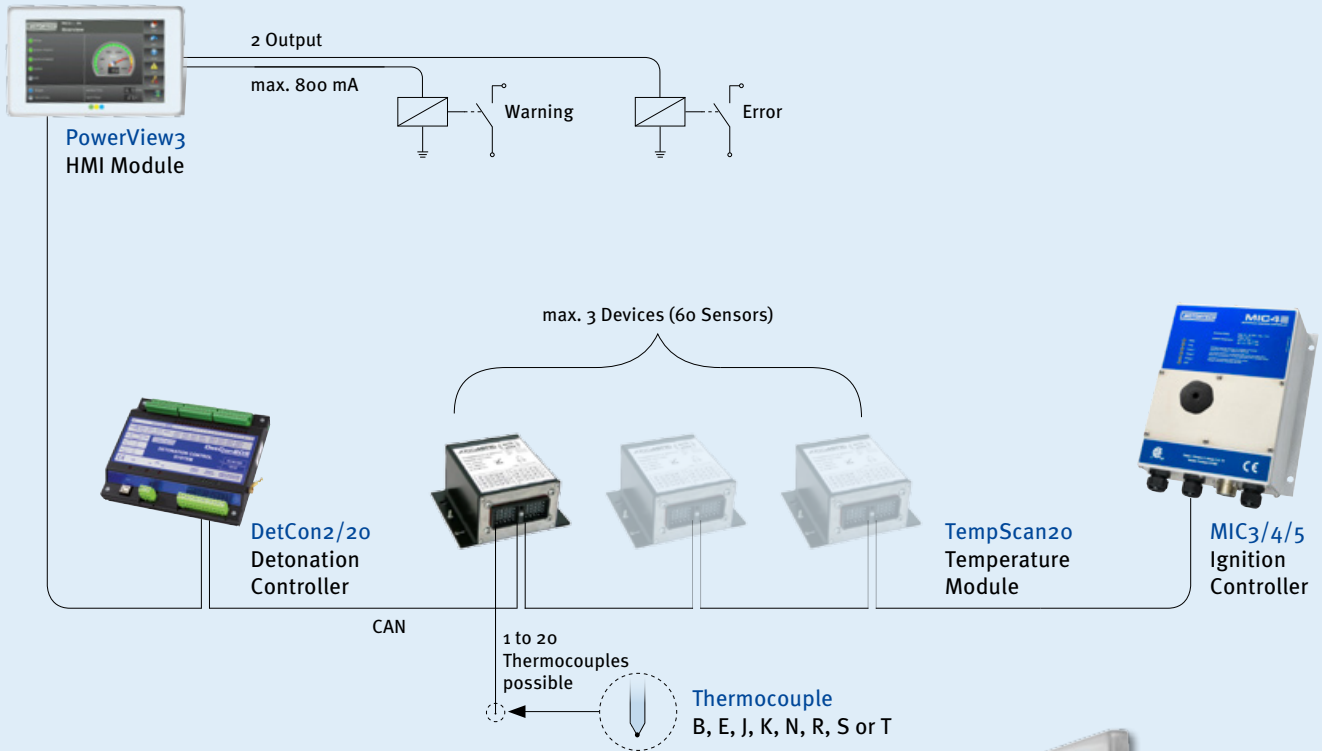
Interfaces
- CAN Bus 2.0b (CANopen protocol)

Housing
- Rugged aluminum housing, stainless steel end plates, neoprene gaskets
- Protected against 95% humidity non-condensing, 30 °C to 60 °C (86 °F to 140 °F)
- Protection class IP65
- 145.30 x 149.00 x 73.00 mm (5.72 x 5.86 x 2.87") L x W x H
- Weight 1.00 kg (2.2 lbs)
- Vibration 8 G for a rail mounted and vibration isolated device

System Overview

2 Output

max. 800 mA

PowerView3
HMI Module

Warning

Error

max. 3 Devices (60 Sensors)

DetCon2/20
Detonation
Controller

TempScan20
Temperature
Module

MIC3/4/5
Ignition
Controller

CAN

1 to 20
Thermocouples
possible

Thermocouple
B, E, J, K, N, R, S or T

Visualisation through PowerView3 HMI Module

MOTORTECH Control Panel
P/N 70.00.055

Ordering Information

P/N	Figure	Description
63.03.002-20	1	TempScan20 temperature module, including connector package for power supply, CAN Bus and thermocouple wiring, operating manual
63.03.012-20	2	TempScan20 temperature module, built into stainless steel enclosure, including connector package for power supply, CAN Bus and thermocouple wiring, operating manual

MOTORTECH®

We aim at your problems!

Regardless of which part of the globe we need to travel to.

We know that the stakes are high, and therefore we outperform the others. That is because we want everything to run smoothly at your site, everywhere and at any time.

This is entirely in keeping up with our motto:
Let us drop everything and work on your problem!

Distribution partner for DENSO spark plugs

DENSO

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