



TC converter - isolated

3111

- Excellent accuracy, better than 0.05% of span
- Slimline housing of 6 mm
- Excellent EMC performance and 50/60 Hz noise suppression
- Selectable < 30 ms / 300 ms response time
- Pre-calibrated temperature ranges are selectable via DIP-switches

























Application

- The 3111 temperature converter measures standard TC J and K temperature sensors, and provides an isolated analog voltage or current output.
- · High 3 port isolation provides surge suppression and protects the control system from transients and noise.
- The 3111 can be mounted in the safe area or in Zone 2 / Division 2 areas.
- · Approved for marine applications.

Technical characteristics

- · Flexibly powered by 24 VDC (±30%) via power rail or connectors.
- < 30 ms fast response time with simultaneous sensor error detection when selected.
- · Selectable 300 ms response time when signal dampening is needed.
- · Selectable internal/external CJC.
- · Excellent conversion accuracy in all available ranges, better than 0.05% of span.
- · Meeting the NAMUR NE21 recommendations, the 3111 provides top measurement performance in harsh EMC environments.
- · The device meets the NAMUR NE43 standard defining out of range and sensor error output values.
- · A visible green LED indicates operational status of the unit and the input sensor.
- · All terminals are protected against overvoltage and polarity
- · High galvanic isolation of 2.5 kVAC.
- · Excellent signal/noise ratio of > 60 dB.

Mounting / installation / programming

- · Selectable DIP-settings for easy configuration of more than 1000 factory calibrated measurement ranges.
- · The narrow 6 mm housing allows up to 165 units to be mounted per meter of DIN rail, without any air gap between
- Wide ambient temperature range of -25...+70°C.



