

Opal Engine Generator Annunciator



Features

- **Remote Display** of the Si-TEC *Xtend* control (via CAN BUS interface), and designed for mounting on system control panel. A '4-line' LCD screen allows operators to view actual and reference values of the Si-TEC *Xtend* control. Also includes specific menu keys on the “**Generator**” keypad.
- **Metering** of essential generator parameters that include generator “Voltage”, “Frequency”, “Real Power” and “Power Factor” (lag & lead). This reduces the need for conventional meters and transducers.
- **Overcrank** and **Overspeed Protection** ability. The features are built as hardware functions independent of the main processor. A dedicated speed sensor (MPU) input is available for these functions.
- **Engine Monitoring** includes measuring Oil Pressure, Oil Temperature, Water Temperature, Crank Battery Voltage and User Selected input. **Alarm** functions are available via logic inputs (status) and relay outputs (eg. Pre-warn, Audible and Visual). Optional sensors (0 – 5 V) for engine monitoring are also available.
- **Engine Protection** including Overcrank, Overspeed, Oil Pressure, Oil Temperature, Water Temperature, Crank Battery Voltage, etc. The **Shutdown** functions are available through logic inputs (status) and relay outputs (eg. Overcrank, Overspeed and Shutdown).
- **Multiple** Opal units may be connected on a generator unit. These include 1 x primary Opal unit (for remote display, engine protection and engine monitoring) and up to 2 x secondary Opal units (remote display ONLY) looped via CAN BUS to the Si-TEC *Xtend* control unit.

Models

Standard – Si-TEC *Xtend* Remote Display, Generator Metering, Overcrank & Overspeed Protection

Optional – Engine Monitoring (with Alarm functions) and Engine Protection (with Shutdown functions)

Inputs / Outputs

- **Power Supply:** 24 Vdc. nominal (14 – 48 Vdc).
- **MPU Input:** Dedicated speed sensor for protection (200 Hz – 20 kHz range).
- **Voltage Input:** For engine “Crank Battery” monitoring (8 – 40 Vdc).
- **Oil Pressure:** 0 – 5 V (default) or 4 – 20 mA input.
- **Oil Temperature:** 0 – 5 V (default) or 4 – 20 mA input.
- **Water Temperature:** 0 – 5 V (default) or 4 – 20 mA input.
- **User Selected Input:** 0 – 5 V (default) or 4 – 20 mA input.
- **6 x Logic Inputs** (+ 24 Vdc common). The inputs include Oil Temperature, Water Temperature, Oil Pressure, and 3 x User Selected inputs.
- **6 x Relay Outputs** including 2 x changeover relays (Crank and Overspeed) and 4 x NO contact relays (Pre-warn, Shutdown, Audible and Visual).
- **CAN BUS port:** Up to 125m (250 kbps) loop length.

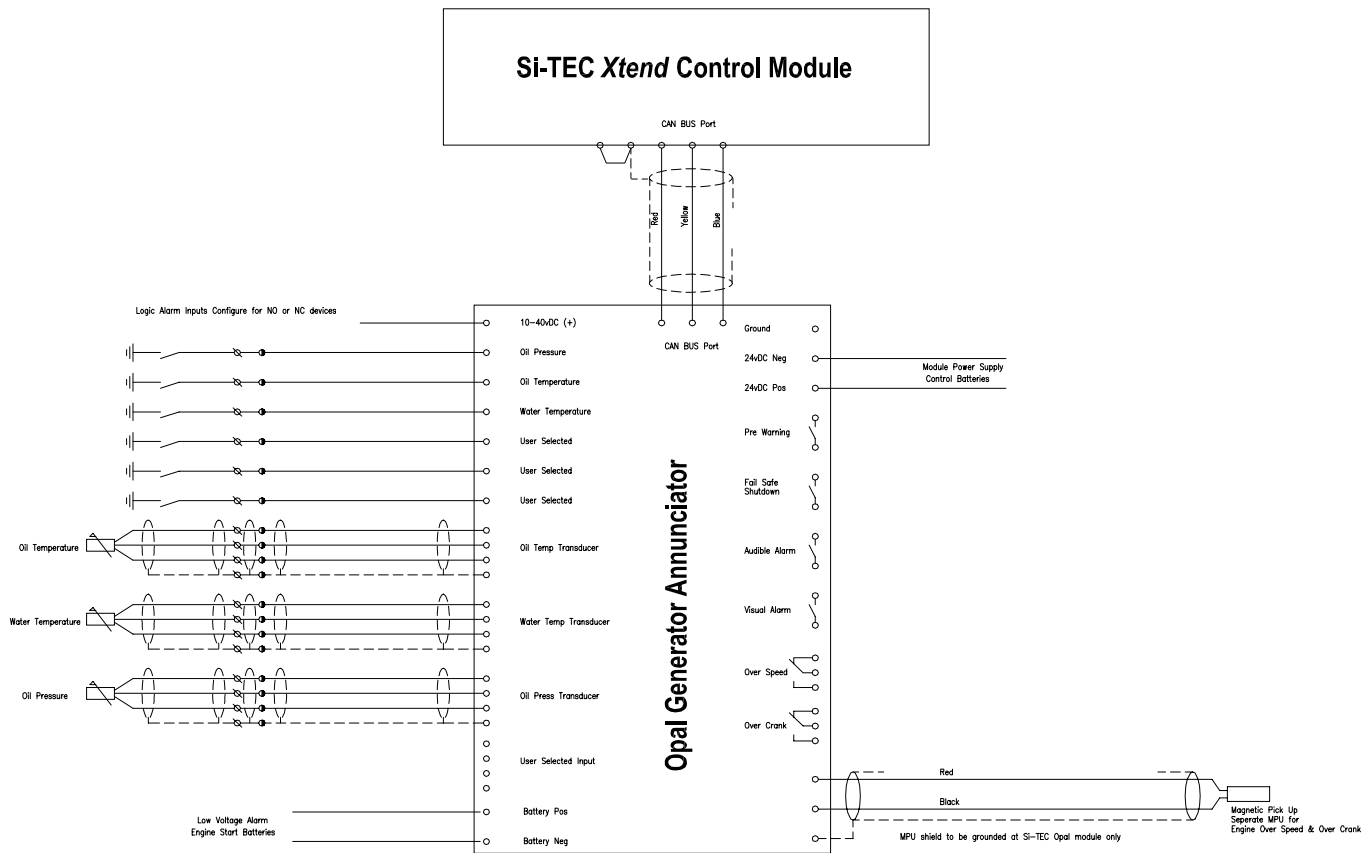
Keypad Functions

- “**Engine**” keypad menu functions include “Home”, “Engine Config”, “Store”, “+”, “-”, “View Alarms” and “Reset Alarms”.
- “**Generator**” (Si-TEC *Xtend*) keypad menu functions include “Home”, “Control”, “Trip Cause”, “Hours”, “3 Phase”, “Peak Hold”, “View Alarms” & “Reset Alarms”.
- **Common** keypad functions “Silent Keypad & Lamp Test”, “Scroll Up”, “Scroll Down”, “Select”, and “Mute”.

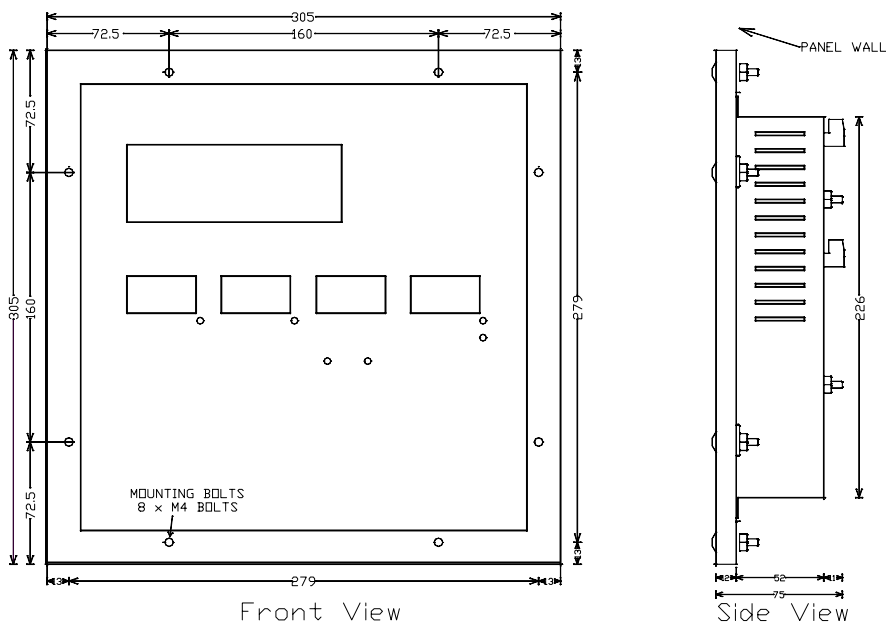
Applications

Used with Si-TEC *Xtend* control in sugar, mining and general industry, remote communities, hospitals and commercial buildings, marine & shipping, defence & telecommunications facilities, as well as the oil & gas industry.

Opal Annunciator Interface



Opal Physical Dimensions (mm) - Front & Side View



Dawson Technology Pty Ltd
 231 Holt Street,
 PO Box 1415,
 Eagle Farm. Qld. 4009 Australia
 Tel: +61 7 3868 4777
 Fax: +61 7 3868 4666
 E-mail: info@govtec.com Web: www.govtec.com