The QCC Quad Channel Controller offers four channel configurations for monitoring toxic, combustible and/or refrigerant gases with versatile control functionality for non-hazardous, non-explosion rated, commercial and light industrial applications. It is designed to accept inputs from up to four remote digital and/or analog transmitters using digital or 4-20 mA analog input. The QCC is available in two models, the QCC-M with Modbus® RTU RS-485 output or the QCC-B with BACnet® MS/TP RS-485 output for communicating with a Building Automation System (BAS).

Standard features include, three configurable SPDT dry contact relays with field configurable time delays and trigger levels, an LCD display with LED indicators for channel alarm status, relay status and fault conditions, an extensive menu system with password protection, logic control, a USB port for firmware upgrades and a door mounted, loud audible alarm that is ideal for noisy environments. Optional value added features include: an analog output module with data logging, a manual shutoff switch (meets B52 code requirements), a top mounted strobe and a water tight, door mounted audible alarm. The QCC can be connected to several remote devices such as a Remote Strobe/Horn Combo, a Remote Display Module and the LNK-AO Analog Output Peripheral Device.

**KEY FEATURES**

- Up to 4 channels of gas readings in any combination of analog and/or digital transmitters
- Modbus® RTU RS-485 LAN communications for controlling Peripherals
- Modbus® RTU RS-485 (QCC-M) or BACnet® MS/TP RS-845 (QCC-B) WAN output for communicating with a BAS
- Optional two 4-20 mA outputs with data logging (Option -AO)
- Three SPDT dry contact relays
- 4 line x 20 character LCD display with LED indicators
- Standard water / dust tight, corrosion resistant enclosure (drip proof); IPS4 rating with door mounted, water tight buzzer installed.
- USB port for firmware upgrades and data logging
- RoHS compliant circuit boards

**APPLICATIONS**

- Wastewater Treatment Plants
- Ice Arenas
- Commercial Indoor Swimming Pools
- Chiller Rooms
- Parking Garages
- ... and many more
GAS DETECTION CONTROLLERS DATASHEET

**QCC Quad Channel Controller**

### TECHNICAL SPECIFICATIONS CON’T

#### ELECTRICAL

**Power Requirement**  
90 - 240 VAC, 50 - 60 Hz, 75 W Line Voltage

**Power Distribution**  
Total power available to Remote & Peripheral Devices and Options  
65 W @ 24 VDC

**Wiring**  
- VAC (line voltage) 3-conductor shielded  
- LAN Modbus® RTU RS-485 4-conductor shielded  
- WAN (output to BAS only): 4-conductor, 16 AWG, stranded shielded  
  Modbus RTU (version 1.1b3) RS-485 or  
  BACnet MS/TP (version 1 rev 14) RS-485

**Fuses**  
Thermal, resetting

#### ENVIRONMENTAL (sensor dependant)

**Operating Temperature**  
-20°C to 40°C (-4°F to 104°F), lower temperature option available

**Humidity**  
15 - 90% RH non-condensing

#### CERTIFICATION

Conforms to: CSA-C22.2 No. 205-12, UL508 (Edition 17):2007

Conforms to: EMC Directive 2004/108/EC  
EN 50270:2006, Type 1, EN61010

Conforms to: FCC. This device complies with Part 15 of the FCC Rules.

**QCC-B, QCC-B-X models are Listed by BTL**  
(where X represents one or more factory installed Options)

### PRODUCT CODES

- **QCC-M**  
  Modbus® Output Quad Channel Controller

- **QCC-B**  
  BACnet® Output Quad Channel Controller

### OPTIONS (Factory installed) Add at the end of the “Part Number” above.

- **AO**  
  Two internal 4-20 mA Analog Outputs with data logging

- **IH**  
  Internal heater for cold environment applications down to -40°C / 40°F

- **L**  
  Top mounted strobe, red lens, IP65 rated  
  6.1 cm dia x 13 cm H / 2.4 in dia x 5.2 in H

- **SW**  
  Manual shutoff switch (meets BS2 Code for refrigeration applications)

- **WA**  
  Door mounted, water tight audible alarm, rated 85 dB @ 60.96 cm (2 ft)

### REMOTE & PERIPHERAL DEVICES

- **QCC-RDM**  
  Remote Display Module, Modbus® RS-485 (max 4)

- **LNK-AO**  
  Analog Output Peripheral Device, Modbus® RS-485 with four 4-20 mA outputs (max 1)

- **RLY-4**  
  Relay Output Module, Modbus® RS-485 with four relays, rated 5A @ 240 volts each (max 1)

- **RPS-24VDC**  
  Remote Power Supply, 24 VDC, 2 Amp

- **RSA-24V**  
  Remote LED strobe light with audible, red lens, 8.9 cm / 3.5”, comes with mounting bracket

- **RSH-24VDC**  
  Remote Strobe and Horn combo, red lens, mounted on enclosure, 24 VAC/VDC, rated 99 dB @ 3 m (10 ft) (VAC), 97 dB @ 3 m (10 ft) (VDC)

  Remote Horn/Strobe Combo, unmounted, 24 VAC/VDC, rated 99 dB @ 3 m (10 ft) (VAC), 97 dB @ 3 m (10 ft) (VDC), choice of Amber, Blue or Red lens

- **RSH-TMR**  
  Remote Horn/Strobe Combo, red lens, mounted on enclosure, with built in timer and shut off switch, 24 VAC/VDC, rated 99 dB @ 3 m (10 ft) (VAC), 97 dB @ 3 m (10 ft) (VDC)

### ACCESSORIES

- **SCS-8000-SPG**  
  Metal protective guard, large, 16 gauge, galvanized metal guards for controllers (not compatible if option -SW is installed)

- **CET-SS**  
  Wall mounted adjustable outdoor cover, protects from sun, glare and inclement weather

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