

RDM Remote Display



The RDM is a remote display device designed to communicate with the FCS Flexible Control System controllers. It displays gas readings, channel status and faults received from the FCS and can be viewed from a remote, relevant location such as a refrigeration application where there are two different entrances to the chiller room.

The RDM employs connection loss detection to ensure the information that is displayed is current. Simple configurations such as adjusting the display contrast and setting the Modbus ID and baud rate can be done in the field. The RDM has several display configurations such as: show/not show one or more channels of interest, readings displayed by line scrolling or page scrolling, display one type of gas and not another, display only the top 4 channels in high alarm, etc.

The RDM comes in a standard water / dust tight, corrosion resistant ABS / polycarbonate enclosure with a hinged, secured door. Available with an optional, factory installed side mounted strobe with audible.

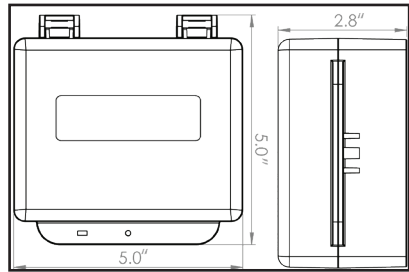
KEY FEATURES

- » Provides convenient viewing of gas readings and system statuses in an alternate location
- » 4-line, 20 character LCD display and LED indicators for alarm STATUS 1, 2, 3 and FAULT conditions
- » Configurable display functions
- » Internal audible alarm
- » Modbus® RS-485 RTU communication
- » Optional side mounted strobe with audible (Option -L2)
- » Output for remote strobe and/or horn connection
- » Connection loss detection to ensure accurate information is displayed
- » Standard, dust / water tight, corrosion resistant enclosure (drip proof)

APPLICATIONS

- » Chiller Rooms
- » Manufacturing Plants
- » Refrigeration plants
- » Arenas & Pools
- » Food Processing Plants
- » ... and many more

TECHNICAL DRAWING



TECHNICAL SPECIFICATIONS

MECHANICAL

Enclosure	ABS / Polycarbonate, IP54 rated, copper coated interior to reduce RF interference.
Weight	272 g / 9.6 oz
Size	127 mm x 127 mm x 71 mm 5.0" x 5.0" x 2.8"

ELECTRICAL

Power Requirements	CET-RDM: 24 VDC, 0.5 W, Class 2 CET-RDM-L2: 24 VDC, 3 W, Class 2 (24 VDC supplied by the Controller)
Wiring	4-wire shielded network wiring between the Controller and RDM
Fuse(s)	Thermal, resetting

INPUT/OUTPUT

Output	Connection for remote strobe/horn
Audible Alarm	Internal audible alarm
Modbus® RS-485 RTU Communication	Baud rate: 19,200 (default) Modbus® ID: 230 (default) Modbus® Broadcast ID: 253 (default) Data bits: 8 Start bits: 1 Stop bits: 1 Parity: none

USER INTERFACE

Display	4x20 character LCD digital display plus LED panel indicating "STATUS 1, 2 and 3" and "FAULT"
Push Buttons	UP, DOWN and ENTER dome buttons externally mounted for accessing menu options

ENVIRONMENTAL

Operating Temperature	-20°C to 40°C (-4°F to 104°F)
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GAS DETECTION REMOTE DEVICES DATASHEET

RDM Remote Display

FIXED SYSTEMS

Humidity 15 to 90% non-condensing

CERTIFICATION

Conforms to: CSA-C22.2 No. 205-12, CSA-C22.2 No. 61010-1-12, UL508 (Edition 17):2007, UL 61010-1 (Edition 3)

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.



PRODUCT CODES

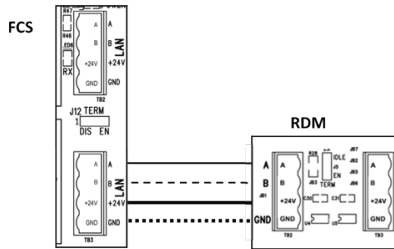
CET-RDM	Remote Display Module
CET-RDM-L2	Remote Display Module with enclosure mounted (on side), strobe with audible, 40 mm / 2 in dia, 80 flashes per min, siren volume 85 dB, drip proof

ACCESSORIES

SCS-8000-RSG	Small galvanized metal, 16 gauge protective guard
RSH-24V	Remote LED strobe light with audible, red lens, 8.9 cm / 3.5", comes with mounting bracket
RSH-24V-A RSH-24V-B RSH-24V-R	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

WIRING DIAGRAMS

Wiring Example: RDM connected to an FCS. Either LAN terminal can be used.



Wiring Example: RDM connected to RSH-24V-R using the Remote Strobe/Horn Terminal

