

FCS-M 128 Gas Channel Modbus® Controller

	Standard Enclosure
Dimensions: Size	10.0" x 8.9" x 4.44" / 254 mm x 226 mm x 113 mm
Weight	4 lbs / 1.8 kg
Construction	ABS / Polycarbonate, IP54 rating with door mounted, watertight buzzer installed, copper coated interior to reduce RF interference
Power Requirement	90 – 240 VAC, 50-60 Hz 75 W line voltage
Power Distribution	65W @ 24VDC supplied by the FCS for peripheral devices
Temperature	-20°C to +40°C (-4°F to 104°F)
Humidity	15 to 90% non-condensing
Indicators	3.2" / 8.1 cm graphic, 1/4 VGA full colour resistive touch LCD screen with LED indicators for "POWER", "STATUS 1, 2 and 3" and "FAULT"
Menu	Accessed using resistive touch screen
Communication (WAN)	Responds to information requests from a DDC, BAS, etc. using Modbus® RTU RS-485 communication
Communication (LAN)	Acts as a master requesting information and commanding status of peripheral devices (transmitters, remote relays, remote displays, etc.) using Modbus® RTU RS-485 communication
Standard Inputs	Up to 128 digital inputs, using internal or remote Modbus® RTU transmitters
Optional Internal Analog Inputs (Option -AI)	Up to eight internal 4-20 mA inputs
Remote Analog Inputs (LNK-AI)	Up to sixty remote 4-20 mA inputs (without any internal analog inputs)
Standard Outputs	Modbus® RTU RS-485 WAN Four internal SPDT dry contact relays rated at 5A @ 240VAC Two drive outputs for strobe/horn (0.5 A @ 24 VDC max)
Optional Internal Analog Outputs (Options -AO or 2AO)	Up to eight internal 4-20 mA outputs (without Option -2AI installed)
Remote Analog Outputs (LNK-AO)	Up to sixty remote 4-20 mA outputs (without Options -AO or -2AO installed)
Ports	USB port for firmware upgrades and data logging downloads
Internal Relays	Four internal SPDT dry contact relays rated at 5A @ 240VAC
Remote Relays (additional)	Total number of available relays (internal + remote) plus strobe/horn drives is 64. Max number of RLY-4 and/or RLY-8 devices varies depending on number of strobe/horn drives used and internal relays used.
Alarm	Standard loud, door mounted buzzer rated 90 dB @ 1 ft / 30 cm (optional watertight version available), two 24VDC output drives for remote strobe/horns
Wiring	4-wire shielded network wiring between FCS and digital devices 3-wire shielded wiring between FCS and analog transmitters
Certifications (tested to)	CSA: C22.2 NO.205-12 UL: UL508 (Edition 17): 2007 CE: EMC Directive 2004/108/EC, EN50270:2006, Type 1, EN61010

Rev: 2021-10