MVR-SC Refrigerant Leak Monitor

For Safety Compliance in Occupied Spaces

DESCRIPTION

Bacharach's MVR-SC refrigerant leak monitor is a system controller that manages and monitors a network of MVR-300 VRF refrigerant leak detectors. Functions include system status, Modbus address assignment, centralized alarming, relay outputs and data logging. A single MVR-SC system controller is capable of managing up to 100 MVR-300 VRF Refrigerant Leak Detectors.

FEATURES	BENEFITS
Visual Status Indication	At-a-glance visualization of whole system alarm, fault, or connectivity status
Integrates with Refrigerant Detectors	Centralized monitoring for multi-occupant applications utilizing the MVR-300 refrigerant detector
Continuous update	Continuously monitors all connected MVR-300 detectors for alarm and fault conditions, ensuring and warning in case of any disconnect
Relay Outputs	1 Alarm Relay; 1 Fault Relay; automatic system action to be taken for fault or alarm condition via built-in relays
Event Log	Rolling event log of 100 most recent events (alarms, faults, connectivity, etc.) saved to SD card
Broad Network	Up to 100 devices connected into a single network, grouped into manageable blocks with up to 15 MVR-300 refrigerant detectors per gateway.
Device ID Auto-assign	Commissioning via dynamic device pairing and remote Modbus auto-assign save

SPECIFICATIONS	DESCRIPTION
Housing	Fiberglass Reinforced Polyester, Wall Mount, Single-door
Dimensions	13.56 × 11.43 × 5.46 inches (344 × 291 × 139 mm)
Weight	7.8 lb (3.54 kg)
Display Type	Color Touch Display, Resistive Analog, TFT
Display Viewing Size	5 inch, 800 × 480 pixels
Audible Alarm	Integrated
Relay Outputs	2 (Fault, Alarm)
Relay Output Type	Fault and Alarm
Relay Switching Rating	2.0 Amps switching current, max 250VAC / 30 VDC
Max. Devices	100 × MVR-300 VRF refrigerant leak detectors 15 × MVR-300 VRF refrigerant leak detectors / Gateway 7 × Gateways / MVR-SC refrigerant leak monitor
Communication	Modbus TCP Master, 10/100 Ethernet, RJ45 Port
Serial Port	1 × RS485 Modbus RTU Master (for direct addressing)
Memory Storage	microSD Card and USB 2.0
Backup Battery	CR2032 (Real-time Clock)
Operating Voltage	24V DC
Input Voltage Range	20.4VDC to 28.8VDC
Max. Current Consumption	0.44A @ 24VDC
Operating Temperature	-20° C to 55° C (-4° F to 131° F)
Storage Temperature	-30° C to 70° C (-22° F to 158° F)
Relative Humidity	5% to 95%
Approvals (Pending)	EN 61326-1:2013

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