

MVR-SC Refrigerant Leak Monitor

For Safety Compliance in Occupied Spaces



DESCRIPTION

MSA 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 |



MORE INFORMATION:

Scan the QR code to learn about the MVR-SC and other MSA Bacharach products.

MVR-SC Refrigerant Leak Monitor



| 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 |

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit <https://us.msasafety.com/Trademarks>.

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