

# 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
<b>HOUSING</b>	Fiberglass Reinforced Polyester, Wall Mount, Single-door
<b>DIMENSIONS</b>	13.56 × 11.43 × 5.46 inches (344 × 291 × 139 mm)
<b>WEIGHT</b>	7.8 lb (3.54 kg)
<b>DISPLAY TYPE</b>	Color Touch Display, Resistive Analog, TFT
<b>DISPLAY VIEWING SIZE</b>	5 inch, 800 × 480 pixels
<b>AUDIBLE ALARM</b>	Integrated
<b>RELAY OUTPUTS</b>	2 (Fault, Alarm)
<b>RELAY OUTPUT TYPE</b>	Fault and Alarm
<b>RELAY SWITCHING RATING</b>	2.0 Amps switching current, max 250VAC / 30 VDC
<b>MAX. DEVICES</b>	100 × MVR-300 VRF refrigerant leak detectors 15 × MVR-300 VRF refrigerant leak detectors / Gateway 7 × Gateways / MVR-SC refrigerant leak monitor
<b>COMMUNICATION</b>	Modbus TCP Master, 10/100 Ethernet, RJ45 Port
<b>SERIAL PORT</b>	1 × RS485 Modbus RTU Master (for direct addressing)
<b>MEMORY STORAGE</b>	microSD Card and USB 2.0
<b>BACKUP BATTERY</b>	CR2032 (Real-time Clock)
<b>OPERATING VOLTAGE</b>	24V DC
<b>INPUT VOLTAGE RANGE</b>	20.4VDC to 28.8VDC
<b>MAX. CURRENT CONSUMPTION</b>	0.44A @ 24VDC
<b>OPERATING TEMPERATURE</b>	-20° C to 55° C (-4° F to 131° F)
<b>STORAGE TEMPERATURE</b>	-30° C to 70° C (-22° F to 158° F)
<b>RELATIVE HUMIDITY</b>	5% to 95%
<b>APPROVALS (PENDING)</b>	EN 61326-1:2013



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