

# Macurco™

BUILDING & HOME SOLUTIONS

Whether you are looking for gas detection for a security system, building automation or HVAC system, for personal safety or for monitoring specific gases in potentially hazardous environments, Macurco has a gas detector to meet your needs.



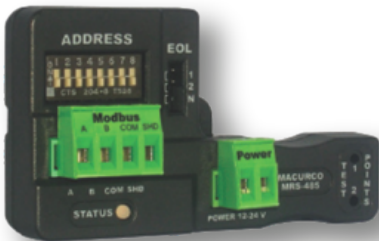
## MRS-485

### RS-485 Adapter



MRS-485 Front View

The Macurco MRS-485 adapter is an accessory that converts the 4-20mA analog signal from Macurco 6-series type detectors to a digital modbus signal for use with multipoint addressable systems. The MRS-485 accepts the 4-20mA output and is powered from the same connection as the detector. The MRS-485 has the ability to interface with Building Automation Systems, Control Panels, or other Control Devices that accept Modbus communications.



MRS-485 Side View

### Key Features

- The MRS-485 monitor's sensor type, gas level, and trouble status communications
- Communication is on a Modbus serial line
- Commercial-type enclosure to protect and support the electronics
- Tricolor LED indicates power, test, and communication status
- Mounts behind the detector inside of a standard 4" x 4" electrical box
- 8-bit dip switch address selector

### Applications

- Parking garages
- Mechanical rooms
- Restaurants
- Battery charging stations
- Breweries
- Storage facilities
- Loading docks
- Warehouses
- Firehouses & ambulance bays
- Refrigeration facilities
- Vehicle repair facilities
- Bus depots

## Specifications

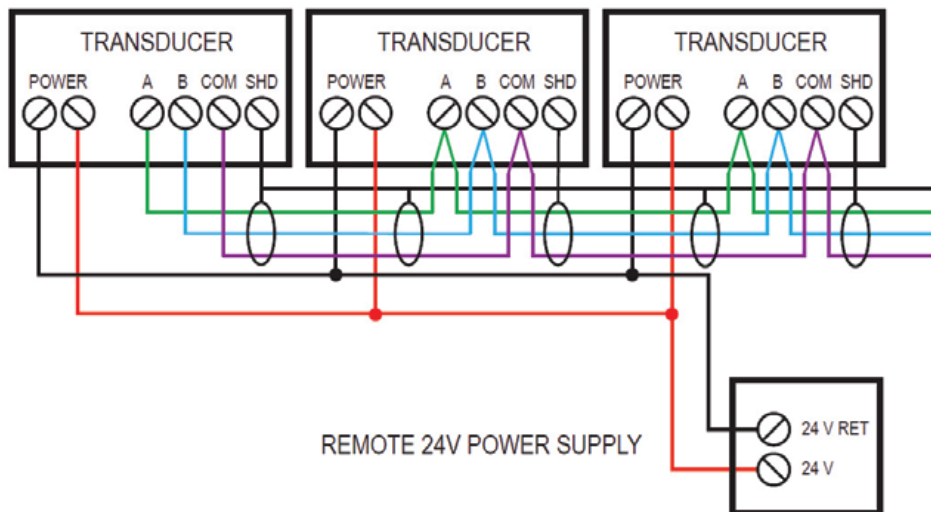
Size	3 1/2 x 2 x 1 3/4 in. (8.9 X 5.1 X 4.4 cm)
Weight	0.25 lb (0.11 kg)
Baud Rate	<b>Modbus:</b> 4800, 9600, 19200 (default), 38400, 57600, 115200 bps
Operating Temperature	0°F to 125° F (-18°C to +52°C)
Ambient Humidity	10-90% RH Non-Condensing
Display	Tricolor LED indicates power, test and communication status
Power & Current (with detector)	3.25W (max) from 12 to 24 VAC or VDC, 85mA in alarm, 60mA fan relay on and 33mA stand by @ 24 VDC
Connections	Plugs/terminals
Mounting	Behind the detector inside of 4" x 4" electrical box
Warranty	Two Year Limited Warranty



6-Series Rear View



Installed MRS-485



### SIGNAL WIRE REQUIREMENTS

Note: It is recommended to always use twisted wires and shielded cable to reduce noise and allow for reliable data communication over greater distances.

Use at least 3-conductor wire with one twisted pair providing a pair for signal (A & B) and common (COM) connections.

For best performance use shielded 3-conductor wire with one twisted pair providing a pair for signal (A & B), common (COM) and shield ground (SHD) connections.