MemoRail Modbus Transmitter

M4Knick ❯

Compact multi-parameter digital transmitter for process analysis

MemoRail Modbus is a compact, digital transmitter available with up to 2 sensor inputs. It is designed for use with the SE 740 optical oxygen sensor and Memosens sensors for the measurement of pH, ORP, conductivity, oxygen, and temperature.

Up to 32 devices can be operated in parallel using Modbus RTU. Device address, link parameters and data rate are selectable.

MemoRail Modbus is a low-cost, space-saving, alternative to traditional liquid analyzers.

QUICK SPECS

Temperature: -14 … 149 °F (-10 … 65 °C)

Power Supply: 4-wire (24 VDC)

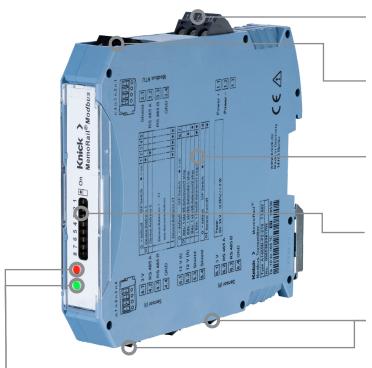*Inputs:* Up to two channels, Memosens sensors as well as digital SE 740 optical oxygen sensor.

Outputs: Modbus RTU

Mounting: DIN Rail (35mm Top Hat)

FEATURES

- Simple device setup using dip switches for device address, link parameters, and data rate
- Modbus RTU Output
  - Process values and diagnostic data transmitted
  - Up to 32 can be operated in parallel (up to 64 total sensors)
  - Sensor calibration can be performed from control system
- LED's for indication of device and sensor status/health

MEMORAIL MODBUS TRANSMITTER ANATOMY

POWER INPUT
4-wire (24 VDC)

OUTPUT
Modbus RTU

Output of process values and diagnostic data to control system

CONVENIENT DIAGRAMS
Setup and Wiring

Wiring diagram and DIP switch configuration printed on the device

DIP SWITCHES
Simple device configuration

Place DIP switches in the proper position for device address and data rate

SENSOR INPUTS
Connections for two sensors (dual channel version is shown)

Connects to SE 740 optical oxygen sensor and any Memosens pH/ORP, conductivity, or oxygen sensor

STATUS INDICATION
LED Lights

Steady Green	Power/OK
Steady Red	Device error, repair required
Flashing Red	Sensor failure or communication fault
Blinking Red	Sensor parameter error