

MemoTrans Transmitter



Ultra compact Memosens transmitter for process analysis

MemoTrans is an ultra-compact, digital transmitter for the measurement of pH, ORP, conductivity, oxygen, and temperature when connected to Memosens® sensors. The first 2-wire multi-parameter transmitter in a compact housing.

The transmitter supplies measurement values to a process control system. Users can perform configuration, calibration, and diagnostics via a HART FDI package or HART handheld.

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

QUICK SPECS

Temperature:

Process: Max. 100 °C / 212 °F, continuous operation
Ambient: Max. 60 °C / 140 °F, continuous operation

Power Supply: 2-wire, supply voltage 12.6 ... 30 V DC (with fault current > 20 mA), 14 ... 30 V DC (with fault current < 4 mA)

Inputs: One channel

Outputs: 4 ... 20 mA current loop floating, protected against inverse polarity, HART communication

FEATURES

- Multi-parameter (pH, ORP, conductivity, oxygen)
- Compatible with almost all process fittings
- Compact housing with IP 67/68, NEMA 6
- Operation via HART FDI package
- Red and Green LEDs for indication of sensor status and health

MEMOTRANS TRANSMITTER ANATOMY

COMMUNICATION

Digital

Users can carry out configuration, calibration, and diagnostics via a HART FDI package. This enables direct integration into all standard control systems. When using BUS operation, you can implement multi-drop mode. Users can use a HART handheld terminal for in-field calibration and diagnostics.

STATUS INDICATION

LED Lights

Green Flashing
Red Flashing

Device operating correctly
Device failure or Sensor Fault
per NEMA NE 107

TRANSMITTER BODY

Compact Housing

The compact housing combines functionality and robustness. The space-saving MemoTrans can be used everywhere and with all Knick fittings. In addition, the housing has IP 67/68, NEMA 6 protection.

DIRECT SENSOR CONNECTION

Memosens Digital Sensing Technology

The direct Memosens sensor connection provides several benefits concerning ease of use and reduction of operating costs:

- The waterproof inductive connection removes measurement influence due to moisture and humidity, commonly present in water and wastewater applications.
- Galvanically isolated, so there is no measurement influence from noise or ground loops. This feature is especially beneficial in open basins when using plastic holders.

