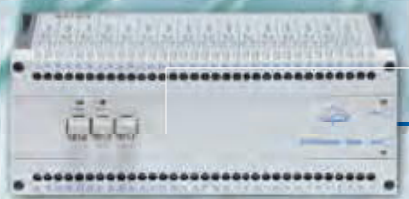# ProfiMessage – Modular **data acquisition**

Do you need a modular, expandable and easy-to-use system for data acquisition, monitoring and automation of your machines, systems or test stands? Then the ProfiMessage series is for you the right choice.

The ProfiMessage devices can be adapted precisely to your requirements by using a range of I/O modules. The option of expanding master devices with slave devices enables you to also acquire data from many channels. The universal use of inputs for voltage, current and temperature measurement, as well as digital inputs as status or frequency inputs, make the devices highly flexible.

Connecting to existing machine infrastructure is extremely simple thanks to serial interfaces. At the same time, analog and digital measurement data can be processed together with data from fieldbus interfaces and stored independently in the device along with high-resolution time stamps for subsequent analysis. Integrated functions such as limit value monitoring, online calculation and logics enable easy preprocessing of measurement data.
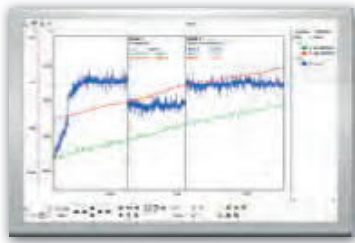
ProfiMessage

I/O Modules	Analog inputs	Analog outputs	Frequency / Status inputs	Status inputs	Switch outputs	Total sampling rate
ADGT	8 channels, V / mV, 20 mA, RTD, thermocouples					60 Hz
ADIT	10 channels, V / mV, 20 mA, RTD, thermocouples	1 channel, 20 mA			1 channel	600 Hz
ADVT	15 channels, V / mV, 20 mA, thermocouples					600 Hz
ADFT	8 channels, V / mV, 20 mA	2 channels, 0 .. 10 VDC	2 channels	2 channels	4 channels	8 kHz
AMDT	8 channels, V / mV, 20 mA	2 channels, 0 .. 10 VDC	2 channels	2 channels	4 channels	10 .. 160 kHz
AAST	4 channels, V / mV, 20 mA, RTD, thermocouples	4 channels, 20 mA		2 channels	2 channels	600 Hz
IOIT				24 channels	1 channel	
OTPT				1 channel	24 channels	
DIOT			11 channels	1 channel	16 channels	

Applications

- Monitoring of industrial processes
- Monitoring of installations and clean rooms
- Test stand automation
- Laboratory data acquisition
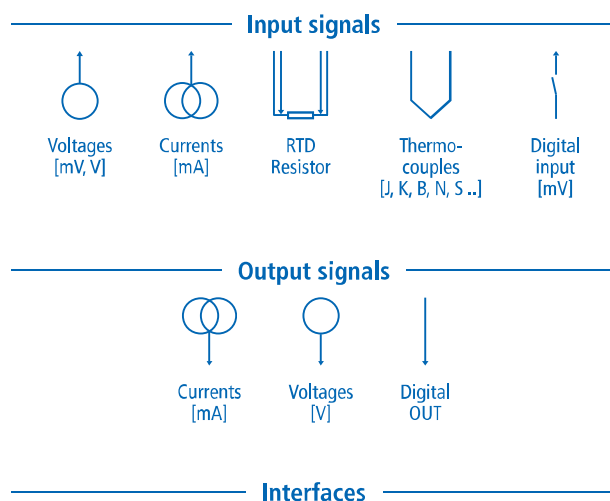- Fault data acquisition
- Energy optimisation

ProfiSignal

Offline

LAN

Online

Input signals

| Voltages [mV, V] | Currents [mA] | RTD Resistor | Thermo-couples [J, K, B, N, S ..] | Digital input [mV] |

Output signals

| Currents [mA] | Voltages [V] | Digital OUT |

Interfaces

- Modbus TCP/RTU
- PROFIBUS DP, CAN RAW
- RS232, RS485
- OPC UA

Product features

- Two slots for I/O modules in each master and slave device
- Options of a range of I/O modules
- Extendible system: option of up to 20 slave devices on one master device
- Automatic email notification in alarm events

Sensor connection

- Universal analog inputs (mV, mA, thermocouples, RTD)
- Configurable analog outputs
- Switchable signals, frequency and pulse counters

Interfaces

- Serial interfaces RS232, RS485
- Modbus TCP/RTU
- PROFIBUS DP, CAN RAW
- Configuration of individual ASCII protocols
- OPC UA

Data storage

- Up to 15.5 GB internal storage
- External storage media (USB)
- Event-triggered recording with pre and post histories
- Push function

Product highlights

- Modular
- Extendible
- Flexible I/O module options
- External data storage
- High galvanic isolation voltage