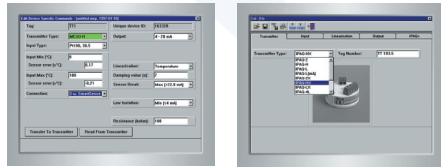


Inor Programmable Transmitters

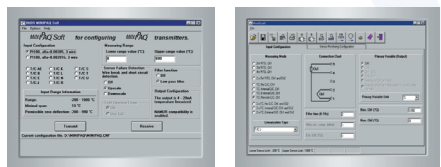
All the programmable transmitters from Inor offer a wide selection of features, which are available by using the configuration softwares.

All softwares can be downloaded from our website www.inor.com



MePRO

IPRO



MINIPAQ Soft

ProfiSoft

MePRO

Windows software for the MESO family of HART transmitters.

By using MEPRO instead of a HART Communicator, you choose the most convenient and the safest way to configure the MESO transmitters. There is no risk getting lost in a complicated menu tree.

IPRO

Windows software for the complete line of IPAQ programmable transmitters.

Even the most versatile transmitters within the IPAQ family, IPAQ^{PLUS}, can easily be programmed with IPRO, which leads you through the configuration step by step.

MINIPAQ Soft

Extremely simple Windows software for MINIPAQ low cost transmitters.

It can't be easier. Transmitter configuration in seconds. All in one menu.

ProfiSoft

Windows software for PROFIPAQ Profibus transmitters.

A very interesting and cost saving alternative to configuration over the Profibus network. The configuration is made without Profibus tools.

Features of the IPAQ and MESO transmitters

Following is a description of the most interesting features:

Temperature measurements with RTDs and other resistances

The transmitters can be configured for inputs from standardized Platinum and Nickel RTDs like Pt10 to Pt1000 acc. to IEC 60751 ($\alpha=0.00385$), Pt100 ($\alpha=0.003916$ or 0.003902) and Ni100/Ni1000 acc. to IEC 60751, as well as inputs from plain resistance sensors such as potentiometers. 3- or 4-wire connection can be chosen. The measuring ranges are freely selectable.

Measurements with thermocouples and voltage

The configuration possibilities also covers inputs from 11 types of standardized thermocouples as well as plain mV input. The measuring ranges are freely selectable.

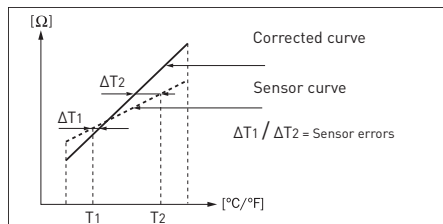
For T/C input, the CJC (cold junction compensation) is fully automatic, by means of an accurate measurement of the terminal temperature.

Dampening function

The dampening function can be used to effectively dampen undesired instabilities on the input signal.

Sensor error correction

Known sensor errors compared to the standard curve, e.g. for a calibrated sensor, are entered, and the transmitter automatically corrects for the sensor errors.



System error correction (Only IPAQ)

This method is used to correct the system errors (sensor and/or transmitter error) by exposing the sensor to one or two accurately measured temperatures (true temperatures). The true temperature(s) and the corresponding transmitter reading(s) are entered, and the transmitter automatically corrects for the system errors.

Sensor failure detection

The Sensor failure detection checks the sensor leads and forces the output signal to a user defined level, if any of the sensor leads are broken or short circuited.

Low isolation detection (LID)

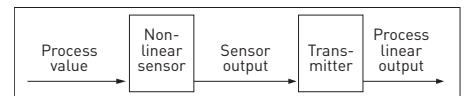
The LID continuously monitors the internal isolation resistance of thermocouples and RTDs as well as the cabling between sensor and transmitter. The transmitter will react by forcing the output to a user defined level if the isolation is below a preset level.

Customized linearization

A very accurate and versatile multi-point customized linearization is available for the IPAQ^{PLUS} and MESO transmitters.

A simplified version (with 9 linearization points) is available for the other IPAQ transmitters. The multi-point linearization can be used to create almost any type of linearization curve for RTD, T/C, resistance and mV inputs.

By combining Customized linearization with the use of Engineering units, the transmitters can be programmed to give a linear output corresponding to a specific measuring range of the primary process value.



Example of a system (sensor + transmitter) with an output linear to the process value, in spite of a non-linear sensor.

Controlled output for instrument calibration

For control and calibration of instruments in the output loop, the IPAQ transmitters can be set to generate very accurate output signals regardless of the input signal.

Features of the PROFIPAQ Profibus transmitters.

PROFIPAQ is a Profibus transmitter, which offers most of the features mentioned above (IPAQ and MESO).

Some interesting **additional** features:

Configuration

The configuration can easily be made from a PC with the Inor software ProfiSoft or over the Profibus from the Master Control System.

Text messages

PROFIPAQ will send text messages over the Profibus for different sensor errors and process alarm conditions.

Double inputs

PROFIPAQ has double inputs, including RTD (e.g. Pt100) in 3-wire connection, which can be used for average and difference measurements or automatic redundancy.