

Gas conversion device Uniflo 1200



Compact
Easy to install
Flexible
Long battery lifetime – 15 years

Flexibility

Uniflo can be built up individually, from a standard battery powered device (TZ or PTZ) to an advanced, multi functional »flow computer«, main powered with HF inputs, meter error curve correction, analogue output, GSM/GPRS modem, customized menu etc.

The concept includes a large number of option boards, offering additional functions such as:

- Remote reading modules.
- Process in- and outputs.
- Special meter inputs (proximity sensors, orifice meters).

New high-end volume converter

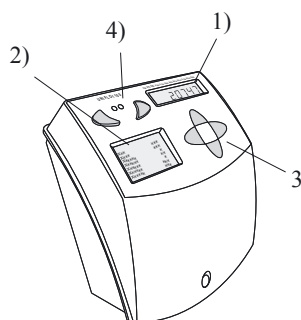
Uniflo 1200 is a new generation of high-end electronic gas volume/energy conversion devices, designed with special consideration to:

- Quick and easy installation
- Flexibility
- Accuracy
- Long battery lifetime (15 years)

Future demands can be adapted by adding new option boards.

Uniflo 1200 can be used as a stand-alone device, or as an integrated part of a complete billing system requiring devices with remote reading capabilities.

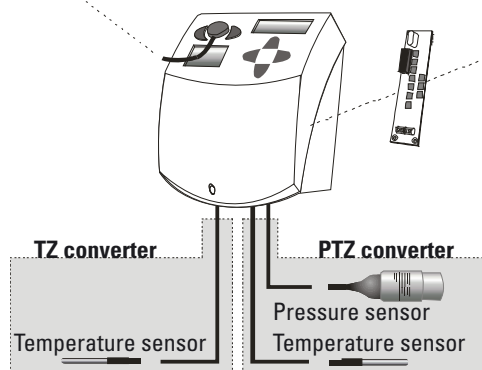
TECHNICAL SPECIFICATIONS



- 1) LCD-display (8 digits). Shows "Converted volume = Nm³/h" and other main readings.
- 2) Menu controlled graphic display (8 lines each of 21 characters). The menu structure is configurable.
- 3) Key pad for scrolling in the displays.
- 4) IR interface, ISO 1107 compatible.

Basic model and options

IR interface to be connected with a PC



Option Boards

- a) Power supply - 230 VAC
- b) HF input (A+B) with error curve correction.
- c) Analogue outputs
- d) Analogue inputs (4.-20 mA for pressure and temperature)
- e) Analogue input for ISO 5167 orifice metering.
- f) Communication controller, for GSM/GPRS/PSTN modem, multidrop wire bus and protocol conversion.
- g) PSTN modem
- h) GSM/GPRS modem

Pressure ranges (barA):

0-6, 3-14, 8-30, 20-80

Temperature range:

-40°C to +70°C (for gas and ambient temperature).

In- and outputs

(standard version without option boards):

Gas meter	2 LF inputs (compare function).
Alarm	1 input (e.g. tamper function).
Pulse output	2 (configurable)
Alarm outputs	1
Serial ports	1 optical (ISO 1107), 1 serial (2 wire half duplex), RS-232 can be supported on request, MODBUS protocol supported.

Accuracy:

According to EN12405.

Typical Accuracy: < 0.2 % of the measurement on the whole pressure and ambient temperature range.

Power supply:

15 years at normal battery operation. Lithium D-cell. 230 VAC as an option. The lithium battery can act as battery back up (automatic disabling mains power function in case of power failure). Built-in 230 VAC power supply not ATEX-approved (ATEX approved power supply in separate extension box can be offered).

Datalogging:

Built-in data logger - capacity up to 136 days of hourly reading. Extended logging capacity can be added to the device.

Z-calculation:

AGA 8, SGERG-88, AGA NX 19 G9 (PTB).

Mechanics:

Enclosure class: IP 65

Metrological approval:

Approved according to EN-12405. Approval performed by NMI.

ATEX approval:

Classification: II2(1)G Eex ib[ia]IIB T3

Extension box can be supplied for remote communication with conversion setting in hazardous zone and communication module (GSM/GPRS or PSTN) in safe zone as well as for 230 VAC power supply.

If the device can be used in safe zone, remote communication module and 230 VAC power supply can be placed inside the device as indicated on the front picture.

Setup software – "Uniflo Config":

Very user-friendly PC program (all MicrosoftTM windows based operating systems are supported). The software can be used for both reading out data and parameterisation.

All important data can be accessed on the front panel of the conversion device. The PC software includes a tool for building your own menu system, in local language, matching your specific needs.

M/06185XX/01
Rev. 08.09.05