

NEW: F1 gas-net FLOW COMPUTER

The *next* generation

The name gas-net stands for the development of a complete family of devices from FLOW COMP. Using the different components in the gas-net series it is possible to fulfill a variety of requirements in a gas measuring and regulating station with the help of only one system.

When developing the system, particular attention was paid to how user-friendly the devices are and to how the parameters are set. These elements are identical in all of the gas-net devices. It doesn't matter which of the gas-net devices you have in front of you: the structure of the operating procedure, the function of the keys and the program for the setting of parameters are all designed in the same way.

A good grade in the performance tests

The new devices were first of all introduced on the German market. The Z0 and Z1 volume correctors are very popular, not only from a technical point of view but also because of the attractive design and the compact size (1/3 mounting width). A complete success!

New: the F1 gas-net

The new international device also has the tried-and-trusted functions but has been extended to include a number of additional features. The F1 gas-net is an energy flow computer which can be used for both single and double-stream operation. If a larger number of process boards are necessary, the device is also available in a half mounting width version. A good tip: especially from an economic point of view, it makes good sense to use the F1 in a double stream system.

Exploiting new technologies

The connection to the gas meter can be carried out via the standard pulse technology. However, the F1 is also able to interpret the digital protocol of an encoder totalizer. The pressure and temperature sensors can be connected either via analogue interface or, the more modern method, via a HART protocol. The correction can be done in accordance with SGERG-88, AGA-8 or AGA-NX-19. In order to include the gas quality in the calculation, the device can be connected to a process gas chromatograph via a DSfG-interface or a Modbus protocol. Alternatively, it is also possible to do the calculations by using fixed gas quality.



FLOW COMP specials

FLOW COMP devices have always been popular because they combine a large variety of functions. The F1 is no exception: it is an all-round talent.

Just like all of the other gas-net correctors, a standard feature of the F1 is the integrated data logging function. Besides recording the data necessary for billing purposes it also has additional archives such as a logbook and an archive for any changes made to the parameters. On top of this, a remote data transmission function is also included in the F1 software. Whether the remote data transmission (RDT) function can be used or not only depends on whether there is a modem connected to the device. If there is, then the user can access the device via a telephone and modem.

When this data connection has been established, it is possible to read out the logbooks or any other archive data, for example. You can also display the F1 control panel on your computer screen. With this 'remote control panel' you can operate the device by clicking on the virtual keys with the mouse as if you were actually on site. Another feature of the RDT function is that if there are any important messages, e.g. an

alarm, then a central control unit can be automatically informed via telephone.

GAS-WORKS – the optimum software

All gas-net devices are supported by the GAS-WORKS software system. All of the GAS-WORKS components are designed in a user-friendly fashion. The GW-GNET+ parameterization program is also integral part of the GAS-WORKS software system which enables the user to set the parameters for all gas-net devices via a PC or a laptop. But GAS-WORKS offers more than this. There are additional service programs including an easy-to-use freeze function, the automatic generating of a data book or a computer-based setting of the device's totalizers. The GAS-WORKS program system is continually being extended to make working with FLOW COMP products even easier – just wait and see, you might be surprised.

The technical functions of the F1 gas-net:

- Electronic energy flow computer for single-stream or double-stream operation, calculation in accordance with SGERG-88, AGA-8 or AGA-NX-19.
- Gas characteristics imported via DSfG or Modbus interface. Fixed values can also be used.
- Integrated data logging function comes as standard.
- DSfG compatible with a maximum communication speed of 115.200 baud.
- One multifunction input board per track stream with (EEx ib IIC) inputs for:
 - One or two-channel connection to the gas meter via pulse interface, first transmitter alternatively via encoder totalizer.
 - Connecting an intrinsically-safe pressure sensor.
 - Connecting an intrinsically-safe Pt-100 temperature sensor.

The pressure and temperature sensors can also be connected via a HART protocol.

- Output board with 1 relay output, 3 transistor outputs and 2 analogue outputs – can be extended if necessary.
- Integrated remote data transmission function; COM interface for a cable network or GSM modem connection.
- 24V DC power supply.
- DSS data interface for setting parameters and reading out data (e.g. archive data).
- Parameters set with GAS-WORKS software system.
- Housing: 19" cassette 1/3 width (for 3 process boards) or 1/2 width (for 6 process boards) for swing bay installation.

Optional: housing for wall mounting combined with a modem and mains socket.

Additional features:

- Remote control panel by means of a special GAS-WORKS program
- Meter proving function
- Archive for parameter changes

Go ahead with the gas-ne(x)t generation !

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