

New:

EK260

Event-Oriented Data Logger

Electronic volume correctors have not been spared the challenges of the changing energy markets. New products can only succeed on the market if they satisfy the need for more information and if they offer the highest degree of flexibility possible.

When we launched the DL240 data logger last year, it was the first step towards a new generation of universal devices and now the next component of our new system is also available.

The new EK260 volume corrector combines our long experience in the field of volume correction with the new demands of the energy markets.

It is a battery-operated device and can be used in a variety of applications. If a mains connection is necessary, the EK260 can also be powered externally. The device can be installed either directly on the meter (with the aid of a bracket) or on the wall. It is also approved for use in Ex-Zone 1 hazardous areas.

There are three digital inputs available to connect the device to the meter. These inputs can be used to count the one or two-channel volume pulses or to monitor any attempts at manipulation. This means the device is totally compatible with the current pulsers used in the turbine and rotary meter totalizers. Since it is necessary to have an accurate time log, one of the digital inputs can also be used to synchronize the time.

Besides volume correction, there are also a number of other functions which make the EK260 stand out. The most important function is an integrated, event-oriented data logger with an approved peak-load display to carry out an exact evaluation of the consumption behaviour of a user. With the archive function the data logger stores the meter readings for actual and standard volumes as well as the mean pressure and temperature values, the compressibility and correction-factors. This is possible either at programmable intervals (typically 60 minutes) or for certain definable events.



No. E	Time	V _n m ³	V _b m ³	p bar	T °C	Compressibility	Correction	Event	Status
1	25.07.00 06:00	3,567,379,604	4,032,860,000	0.99785	33.77	1.0009	0.87566	0x8104	0
2	25.07.00 07:00	3,572,633,911	4,038,860,000	0.99786	33.78	1.0009	0.87564	0x8104	0
3	25.07.00 08:00	3,577,888,446	4,044,860,000	0.99800	33.76	1.0009	0.87582	0x8104	0
4	25.07.00 09:00	3,583,143,924	4,050,860,000	0.99813	33.75	1.0009	0.87598	0x8104	0
5	25.07.00 10:00	3,588,399,618	4,056,860,000	0.99813	33.74	1.0009	0.87599	0x8104	0
6	25.07.00 11:00	3,593,656,009	4,062,860,000	0.99817	33.75	1.0009	0.87602	0x8104	0
7	25.07.00 12:00	3,598,912,967	4,068,860,000	0.99832	33.78	1.0009	0.87606	0x8104	0
8	25.07.00 13:00	3,604,169,811	4,074,860,000	0.99832	33.75	1.0009	0.87614	0x8104	0
9	25.07.00 14:00	3,609,426,614	4,080,860,000	0.99842	33.79	1.0009	0.87612	0x8104	0
10	25.07.00 15:00	3,614,683,811	4,086,860,000	0.99843	33.73	1.0009	0.87628	0x8104	0
11	25.07.00 16:00	3,619,942,179	4,092,860,000	0.99858	33.71	1.0009	0.87651	0x8104	0
12	25.07.00 17:00	3,625,201,467	4,098,860,000	0.99865	33.69	1.0009	0.87662	0x8104	0
13	25.07.00 18:00	3,630,451,957	4,104,850,000	0.99876	33.72	1.0009	0.87662	0x8104	0
14	25.07.00 19:00	3,635,711,659	4,110,850,000	0.99882	33.74	1.0009	0.87661	0x8104	0

Volume Correction and More



To transfer the data to any device down the line there are four freely-programmable digital outputs which can be used to transmit pulses, messages or time synchronisation pulses as required.

Since remote data transfer is playing an increasingly important role in metering, Elster has built an additional serial interface into the EK260 to connect a Modem. Naturally, the EK260 is an integral part of the LIS200 system and it can be read out with the help of the already available equipment on site or via Modem. The transferred data can then be processed using our WinLIS software or any follow-up programs such as a billing program.

Using an AS200 readout device on site it is possible to read out the data from the archive and set the relevant parameters.

The device is operated on site and the parameters are set with the aid of the keypad. The two-line display shows a discrete description of the individual values as well as the relevant codes and abbreviations.

If you would like to experience for yourself how universal the EK260 really is, come and visit us at the IFG in Berlin or just give us a call.

FRANK MICHELS, ELSTER GERMANY

All of the data is stored including the current date and time as well as the appropriate status of the device to monitor the operation of the device at all times.

The above-mentioned events might be an error such as that the permissible operating pressure limit is exceeded. In these cases, a separate set of data is stored with the current date and time and the status of the device. If the operating pressure drops back within the limits, another set of data is stored. This enables the user to determine the volumes consumed within this period by simply subtracting the meter readings.

*The new EK260:
Installation on the wall (above)
or directly on the meter (right)*

