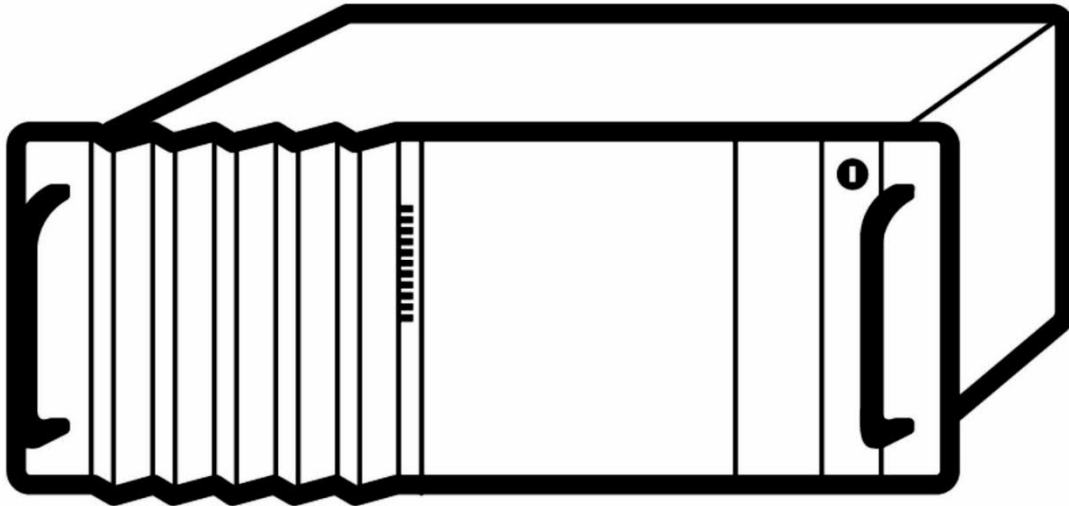# Industrial Computer

Gasmet Industrial Computer

Gasmet industrial computer is required to operate the analyzer, to control the sampling system, translate measured and analysed concentrations and alarms to higher level automation and control systems.

In essence, the Gasmet software (Calcmet) can be operated in any Windows computer. However, many typical continuous monitoring applications require analogue inputs and outputs, relay contacts, status input and output values, all of which can optionally be provided by adding desired expansion cards to the Gasmet industrial computer.

The standard computer configuration provides analyser control via a serial port, and watchdog functionality. Additional features including sampling system control, concentration and alarm outputs and multipoint sampling can be realized by adding suitable expansion cards to the computer.

Standard configuration

Normal configuration:	SIMATIC IPC847E, Core i3-8100, 2 x 480 GB SSD 2.5" SATA (second SSD is a back-up in factory state), 8 GB DDR4 SDRAM
Operating system:	Windows 10 Enterprise 2016 LTSB (64 -bit) (English)
Software included:	Calcmet STD for Windows
Watchdog support:	Included
Mouse:	Optional
Keyboard:	Optional

Optional input / output expansion cards

AdLink PCI cards (max. 7 pcs):

- Analogue output	8 x 4-20 mA / card
- Digital input / output	16 x input / 16 x output / card
- Relay output	8 / card
- Analogue input	8 x 0-10 V / card

Optional input / output expansion modules

Built in weather proof casing or on DIN rail.

Enclosure:	IP66
Beckhoff:	
- Digital output	8 x 0.5 A / module
- Digital input	8 / module
- Analogue output	4 x 4-20 mA/ module
- Analogue input	4 x 4-20 mA / module, 4 x 0-10 V / module
	(max. 255 modules)
FieldBus:	ModBus, ModBus TCP/IP, Profibus, ASCII, DDE link. RS232 or RS422/485

Connections

Networking:	3 x Gigabit Ethernet (RJ45)
USB connections:	2 x USB 3.1 GEN 2 Type C high current, 4 x USB 3.1 GEN 2 Type A high current, Front: 2 × USB 3.1 Gen 1 Type A
Serial/parallel ports:	3 x COM (RS-232)
Audio:	Line out, microphone in
Mouse:	PS/2
Keyboard:	PS/2
Display:	DVI-D , 2 x DisplayPort

Electrical connections

Supply voltage:	100 V AC to 240 V AC (-15% ; +10%)
Frequency of the supply voltage:	50 to 60 Hz, min. 47 Hz to max. 63 Hz, sinusoidal

Electromagnetic compability/ electrical safety

CE label:	According to EN 61000-6-3

Enclosure

Dimensions:	19" rack, height 4 U
	430 × 444 × 177 mm (W×D×H)
Weight:	16.7 kg