



Stationary data recorders - MultiCon



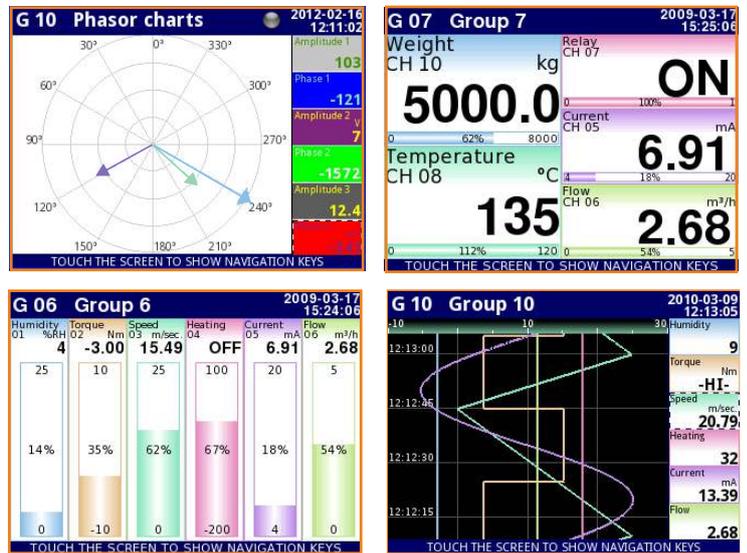
- meter + controller + recorder + HMI in one package
- controller modes: PD, PI, PID, ON/OFF
- mathematical and logical functions
- communication interfaces: Ethernet, RS-485 / Modbus RTU, USB Host
- 1.5 GB internal memory, enlarged by an external card
- DAQ Manager software for maintenance

The **MultiCon** series devices are advanced recorders with capability of control and measurement, closed in one compact case. They have been designed for both advanced and less demanding applications in industrial automatic control engineering. They feature a colour TFT display with a touch screen (3.5 or 5.7 inch, depending on version). Such a GUI is a pleasure to work with, and the operation of the MutiCon playing the HMI role is intuitive and comfortable. The kernel of the software is LINUX operating system, which ensures stable operation and enables installing advanced software.

www.multicon24.eu

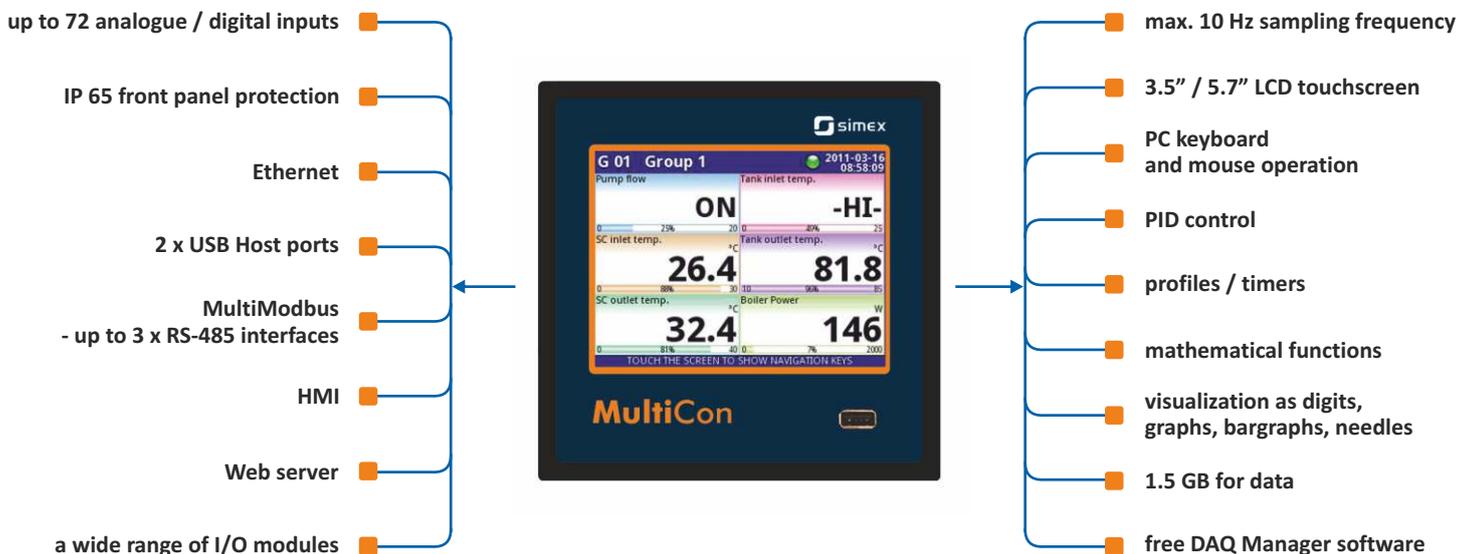
Many possibilities and easy change of data presentation or displayed channels is a feature which might be useful in many cases. Depending on whether we need a detailed information on the signal value, quick insight into the signal level, or parameter trend over time, the data can be presented as:

- numerical values,
- quasi-analog indicators,
- phasor charts,
- horizontal or vertical charts,
- horizontal or vertical bars,
- simultaneous presentation of many groups.



	intense (every 1 sec.)	medium (every 10 sec.)	economy (every 1 min.)
60 channels	20 days	6 months	3 years
48 channels	30 days	8 months	4 years
24 channels	50 days	15 months	7 years

Internal memory of **1.5 GB** is sufficient for over **125 million** of samples!, meaning that even in the intensive sampling mode (every second) you can record data, for example, from 24 channels for 2 months.



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The distinguishing feature of **MultiCon** is its capability of simultaneous implementation of tasks related to measurements, processing, control and recording of data. To make this possible, the designers have used the concept of "logical channels" which are virtual bridge between physical inputs/outputs and control and visualization processes.

In its most expanded version, a single, compact **MultiCon CMC-99** instrument can include modules which provide in total up to 48 physical inputs and outputs (analogue, digital and relay) and 60 virtual channels. Its slightly bigger brother, **MultiCon CMC-141**, can have up to 72 analog / digital inputs and max. 90 virtual channels.

The **MultiCon** line was extended to on-wall IP 65 enclosure, dedicated to harsh environments. **CMC-N16** can contain up to 4 universal inputs, up to 4 digital inputs (+ one permanent) and up to 4 binary outputs or up to 4 analogue ones. Although the number of available inputs is reduced as compared with the panel mounted model, the functionality available so far has been maintained.

A well-thought-out modular design allows precise adaptation of the CMC to various specific needs and requirements of all customers. A wide array of input and output modules is available (current, voltage, universal, thermocouple, RTD, NTC, digital, counting, relay, SSR and other).



Input / output / communication modules for CMC-99/141

Power supply modules	
PS32	19 ÷ 50V DC, 16 ÷ 35V AC
PS42	85 ÷ 260V AC/DC
Communication modules	
USB	USB port (rear)
ETU	1 x USB Host, 1 x Ethernet 10 MB
ACM	1 x RS-485, 1 x RS-485/232, 1 x USB Host, 1 x Ethernet 10 MB)

Output modules	
R81	8 x SPST relay 1A output
R121	12 x SPST relay 1A output
R45	4 x SPDT relay 5A output
R65	6 x SPDT relay 5A output
S8	8 x SSR output
S16	16 x SSR output
S24	24 x SSR output
IO2	2 x 4-20 mA output, isolated
IO4	4 x 4-20 mA output, isolated
IO6	6 x 4-20 mA output, isolated
IO8	8 x 4-20 mA output, isolated

Input modules	
UN3	3 x universal inputs U/I/RTD/TC/mV, isolated
UN5	5 x universal inputs U/I/RTD/TC/mV, isolated
UI4	4 x voltage input + 4 x current input
UI8	8 x voltage input + 8 x current input
UI12	12 x voltage input + 12 x current input
U16	16 x voltage input
U24	24 x voltage input
IS6	6 x current input, isolated
I16	16 x current input
I24	24 x current input
UI4N8	4 x voltage input + 4 x current input + 8 x NTC input
UI4D8	4 x voltage input + 4 x current input + 8 x digital input
UI8N8	8 x voltage input + 8 x current input + 8 x NTC input
UI8D8	8 x voltage input + 8 x current input + 8 x digital input
RT4	4 x RTD input
RT6	6 x RTD input
TC4	4 x TC input
TC8	8 x TC input
TC12	12 x TC input
D8	8 x digital input
D16	16 x digital input
D24	24 x digital input
CP2	2 x pulse input, universal counters
CP4	4 x pulse input, universal counters
FT2 or FT4	2 or 4 x pulse input (for flow/rate applications, each to display both actual & total flow/rate) and 2 or 4 x current input (for general purpose measurement)
FI2 or FI4	2 or 4 x current input (for flow/rate applications, each to display both actual & total flow/rate) and 2 or 4 x current input (for general purpose measurement)
HM2	2 x hourmeters, isolated
HM4	4 x hourmeters, isolated

