

Metering Technology



MR15 and MR30

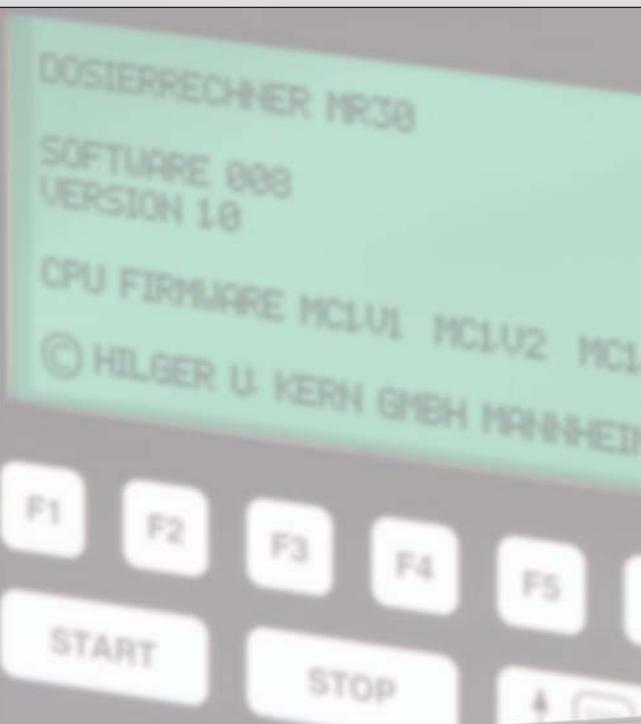
Hilger u. Kern Metering Computer Technology



Hilger u. Kern / Dopag Group



The new generation...



General

Hilger u. Kern metering computers are able to handle challenging control tasks in industrial applications.

The main advantages are:

- Simple operation
- Compact design
- Efficient hardware
- Multi tasking operating system

The MR15 and MR30 metering computers facilitate program downloads, backup, process data storage and much more over a common USB stick. They contain no-voltage based data storage for program, application or system data.



MR15

The metering computer MR15 is a high performance central processing unit (CPU) used to handle sophisticated metering tasks. Numerous digital and analogue inputs and outputs are included onboard.

The CPU offers the possibility of installation onto a DIN rail with an interface to a touch panel or as a compact control unit to be installed into a control cabinet. The operator panel of the compact control unit is equipped with an alphanumeric keypad.

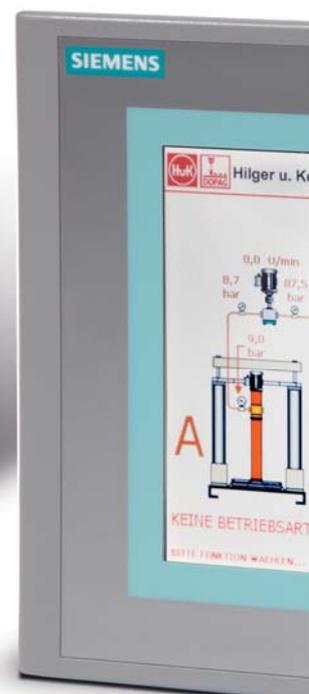
By use of a CAN interface the input and output signals can be extended. The communication capability of the CPU includes two serial and one CAN interface.

MR30

The metering computer MR30 reaches its highest computing power by using the latest micro controller design and a multi processor system with 3 CPU's. Numerous digital and analogue inputs and outputs are included onboard.

The CPU offers the possibility of installation onto a DIN rail with an interface either to a touch panel or an operator panel. The operator panel is equipped with an alphanumeric keypad.

By use of a CAN interface the input and output signals can be extended. The communication capability of the CPU includes four serial, two CAN and one Ethernet interface.

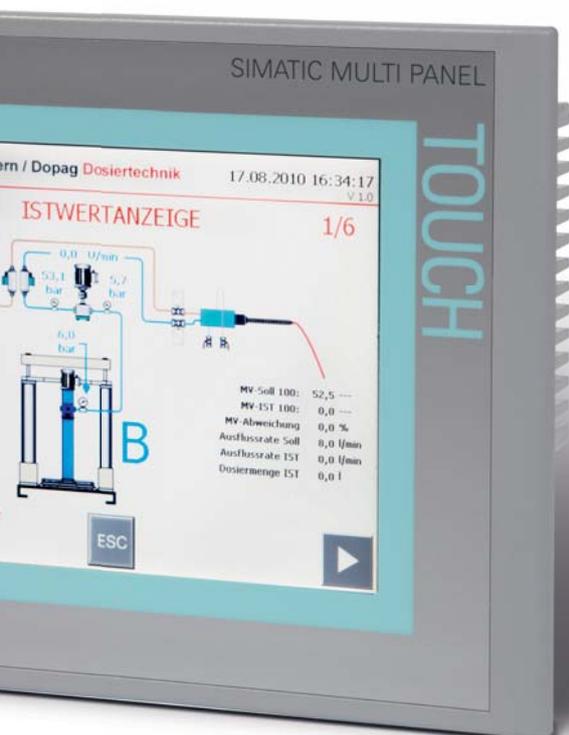


Touch panel

The CPU's of both metering computers offer the possibility of installation onto a DIN rail with an interface to a touch panel that enables operator friendly usage and visualisation of system parameters.

In this case a Siemens SIMATIC touch panel is used. It includes application memory and language switching facilities.

The storage of reports, process data, backup and restore data can optionally be saved on an SD multi media card.



...of metering computers



Technical data

	MR15	MR30
Power supply	24 Volt DC +/-10 %	24 Volt DC +/-10 %
Power consumption	Max. 0.8 A	Max. 1 A CPU, max. 0.4 A for operator panel
Protection class	IP10 (CPU) IP20 (Compact control unit)	IP10
CPU assembly	DIN-Rail (CPU) Control cabinet (Compact control unit)	DIN-Rail (CPU) Operator panel or touch panel required
LCD Display operator panel	8 lines x 40 characters LED backlight	16 lines x 40 characters CFL backlight
Processor	Infineon XC167	Multi processor system: 1x Infineon XC167 2x Infineon XC164
External bus width	16 Bit	16 Bit
Clock frequency	40 MHz	40 MHz
Program memory	1664 KB flash	1664 KB flash
System memory	512 KB SRAM	1 MB SRAM
Data memory	384 KB flash application storage 128 KB flash system data 2 KB NVRAM	512 KB flash application storage 128 KB flash system data 32 KB NVRAM
Data storage	Flash: min. 20 years, min. 1 Mio. writing cycles NVRAM: min. 10 years	Flash: min. 20 years, min. 1 Mio. writing cycles NVRAM: min. 10 years
Real time clock	Standard	Standard
Programming language	High level language C / Keil Compiler	High level language C / Keil Compiler
Operating system	Realtime multitasking OS ARTX166	Realtime multitasking OS ARTX166
Serial interfaces	1x RS 232 1x RS232/RS422	3x RS 232 1x RS 422
Digital Inputs/Outputs onboard	24 I / 16 O	26 I / 16 O
Analogue Inputs/Outputs onboard	5 I / 3 O	8 I / 2 O
USB 2.0	1x	1x
Program upload	Standard	Standard
Windows compatible flash file system for data security, operating data capture	Optional	Optional
Connection interface for extension module	Standard	Standard
Interface CAN V2.0B	1x	2x
Extra protocol e.g. CANopen	Optional	Optional
Ethernet 10/100-Base-T	---	1x
Transport layer: UDP/TCP	---	Standard
Protocol layer: Modbus-TCP Siemens RK512/3964R	---	Optional
Feldbus interface		
Profibus-DPV0..DPV2	Optional external gateway	Optional onboard ad-on module
Interbus-S	Optional external gateway	Optional onboard ad-on module
Profinet	Optional external gateway	Optional external gateway
Others	Optional external gateway	Optional external gateway

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The Hilger u. Kern / Dopag Group, with more than 300 employees,

8 subsidiaries and 24 distributors, is one of the leading manufacturers

of metering and mixing systems in the world for plural component

polymers and single component media such as greases, oils and pastes.

For more than 30 years the group has developed systems and

components to suit your individual needs.