

pH mV μ S mS O₂ Cl₂ ISE NTU



KM 3000

Meinsberger Multi-Parameter Controller

多参数水质监测仪—来自德国迈格

KM 3000 Multi-Parameter Controller 多参数水质监测仪

应用

- 饮用水监测
- 水质监测
- 废水监测
- 电镀行业
- 过程化学
- 生物技术

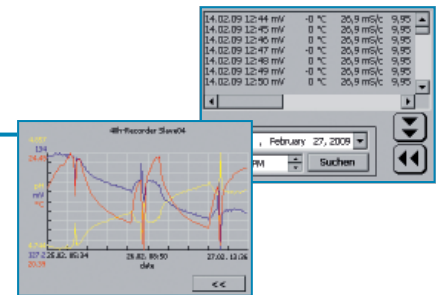
优势

- 最多16通道参数同时处理测量和温度值
- 在清晰的彩色触摸屏上进行直观的操作
- 嵌入式PC可以进行软件定制和更新
- 多语言菜单

- 高标志硬件和软件安全
- 多种通讯接口：RS232, RS485, USB和以太网口，以及模拟量：0(4)...20mA接口

- 大容量内存，用于数据记录、存储并可传输于USB盘。
- 极限值、控制权 and 报警继电器输出。可选择PID控制器用于2参数。
- 内置GSM/GPRS猫，SMS通讯
- 100%向下兼容KM200系统
- 可视化软件“MVRemote”

由于先进的模块化的总线技术，多参数监测仪KM3000结合了高功能性，极高的可靠性和舒适的操作，满足客户定制化需求。配置多种水质传感器参数的测量，传输和评估，KM3000提供了一个完整的系统解决方案。



Because of the advanced modular bus technology the Multi-Parameter Controller KM 3000 combines high functionality, extremely high reliability and comfortable operation with nearly unlimited possibilities for custom-specific configuration. In all applications requiring the measurement, transmission and evaluation of several electrochemical quality parameters, whether on-line and with high reliability or in process control, the KM 3000 offers a complete system solution.

Applications

- Drinking Water Monitoring
- Water Monitoring
- Waste-Water Technology
- Electroplating
- Process Chemistry
- Biotechnology

Features

- up to 16 channels for simultaneous processing of measuring and temperature values
- intuitive and comfortable operation with clearly arranged color touch screen
- embedded PC allows simple integration of customized software or updates

- multi-language and quick menu navigation
- high standard of hard- and software safety
- common interfaces: RS232, RS485, USB and Ethernet (prepared) as well as 0(4) ... 20 mA
- extendable big-size memory for data logger and log-book, data transfer on USB-stick
- limit-, controller- and alarm relay outputs, selectable PID-controller for two parameters
- internal GSM / GPRS-modem, SMS
- 100 % compatible to KM 2000 system components
- visualization software "MVRemote" available

配置选项 KM 3000 / Overview systems components* KM 3000 模块/ actor modules

内置模块 / internal	外置模块 / external	描述 / description
DAC3000CAN (max. 1)	DAC3000CAN (max. 4)	■ 电流输出模块 / scaleable current outputs ■ 4 x 0(4) ... 20 mA
	REL2000CAN (max. 4)	■ 4 继电器输出模块 / 4 floating relay outputs ■ max. 3 A, 250 V AC (Schließer / NOC)
PID2000 (max. 1)		■ 2 双向PID-调节器 (模拟、脉冲和频率控制模块) / 2 bidirectional PID-controller (analog-, pulse- or frequency controller)



系统组件 KM 3000 / Overview systems components* KM 3000

测量模块 / Measuring modules

内置模块 / internal	外置模块 / external	参数测量范围/ measuring range	分辨率/ resolution	温度/temperature meas.
MVM2210	MV2210	<ul style="list-style-type: none"> ■ pH ■ 0 ... 14 	pH 0,01	-10 ... 130 °C Res. 0,1 °C
MVM2215	MV2215	<ul style="list-style-type: none"> ■ 氧化还原电位 / redox potential ■ -2000 ... +2000 mV 	1 mV	-10 ... 130 °C Res. 0,1 °C
MVM2216	MV2216	<ul style="list-style-type: none"> ■ 离子浓度 / ion concentration ■ 离子模块 (ISE) / sensor specific (ISE) 		-10 ... 130 °C Res. 0,1 °C
MVM2220	MV2220	<ul style="list-style-type: none"> ■ 电导率(2-电极) / conductivity (2-pol) ■ 0 ... 200 μS/cm ■ 0 ... 2000 μS/cm ■ 0 ... 20 mS/cm ■ 0 ... 100 mS/cm ■ Auto range ■ Salinität / salinity 2 ... 42 g/kg ■ Widerstand / resistor 	0,1 μ S/cm 1,0 μ S 0,01 mS/cm 0,1 mS/cm	-10 ... 130 °C Res. 0,1 °C
MVM2225	MV2225	<ul style="list-style-type: none"> ■ 电导率(4-电极) / conductivity (4-pol) ■ 0 ... 200 μS/cm ■ 0 ... 2000 μS/cm ■ 0 ... 20 mS/cm ■ 0 ... 500 mS/cm ■ Auto range ■ Salinität / salinity 2 ... 42 g/kg ■ Widerstand / resistor 	0,1 μ S/cm 1,0 μ S 0,01 mS/cm 0,1 mS/cm	-10 ... 130 °C Res. 0,1 °C
MVM2230	MV2230	<ul style="list-style-type: none"> ■ 溶解氧 / dissolved oxygen ■ 0 ... 200 % ■ 0 ... 20 mg/l 	0,1 % 0,01 mg/l	-10 ... 130 °C Res. 0,1 °C
MVM2260	MV2260	<ul style="list-style-type: none"> ■ 余氯、二氧化氯 / concentration (chlorine-, dioxide, ...) ■ 0 ... 2(10) mg/l 	0,01 mg/l	-10 ... 130 °C Res. 0,1 °C
MVM2260A	MV2260A	<ul style="list-style-type: none"> ■ 电压输入 / voltage input ■ linear 0 ... 5 V DC 		
MVM2260B	MV2260B	<ul style="list-style-type: none"> ■ 电流输入 / current input for active sensors ■ linear 0(4) ... 20 mA 		
MVM2260C	MV2260C	<ul style="list-style-type: none"> ■ 电流输入 / current input for passive sensors ■ linear 0(4) ... 20 mA, +15 V DC / 65 mA 		
MVM2270	MV2270	<ul style="list-style-type: none"> ■ 流量频率输入 / flow (vane sensor) ■ 0 ... 100 l/h ■ Frequenz / Frequency (Hz) 	0,1 l/h	

* alle Komponenten sind kompatibel zum KM 2000 und KM 3000 / all components are compatible to KM 2000 and KM 3000

规格

多参数监测仪 KM 3000

测量参数

- pH / ORP
- 电导率 (2-电极, 4-电极)
- 氧浓度 (溶解氧或者气态氧)
- 余氯 / 总氯
- 离子浓度
- 浊度, 流量和其它

温度补偿

- 温度电极Pt 1000

控制输出

- 4 继电器输出最大 5 A, 250 V AC
- 2 PID-控制器 脉冲 / 频率 / 模拟输出
- 可增加外部继电器输出模块

接口

- 0(4) ... 20 mA, 全量程比例
- RS-232 和RS-485 (ASCII- 和 Modbus-协议) Ethernet 网(TCP / IP),
- USB口用于USB卡, 打印机等

固件更新

- 通过USB-卡

显示

- 彩色触摸屏 5,7", 320 x 240 像素, 背光

48h-图形记录

- 最后48小时图形记录

数据记录器

- 100.000 个数据包括时间和日期。
- 可扩展存储于SD卡, 传输到U盘

日志

- 200 个事件, 包括事件和日期

温度

- -10 ... 55 °C

设置

- 通过USB口保存和设置, 通过 „MVRremote“PC软件设置

电压供电

- 115 / 230 V AC, 48 ... 63 Hz
- 15 ... 30 V AC / DC (内置)

外壳

- 铝合金结构外壳

- IP 65防护等级

尺寸 (B x H x T)

- 240 x 240 x 120 mm

传感器接口

- 端子

EMV

- EN 61326, 89 / 336 / EWG

Specifications

Multi-Parameter Controller KM 3000

Measuring parameters

- pH / redox potential (ORP)
- conductivity (2-pol, 4-pol)
- oxygen concentration
- free chlorine / total chlorine
- ion concentration
- turbidity, flow and others

Temperature compensation

- automatically with Pt 1000

Controller outputs

- 4 floating relay outputs max. 5 A, 250 V AC
- 2 PID Controllers, pulse length / frequency / analog output
- additional external relay outputs available

Firmware update

- via USB-stick

Interfaces

- 0(4) ... 20 mA, scalable
- RS-232 and RS-485 (ASCII- and Modbus-protocol)
- Ethernet (TCP / IP), prepared
- USB Host for USB-stick, printer, and more

Display

- color touch screen 5.7", 320 x 240 pixel, back-lighted

Data logging system

- 100.000 values inclusive time, date
- extendable via SD-card
- data transfer on USB-stick

Log-book

- 200 activities inclusive time, date and calibration parameters
- data transfer on USB-stick

Ambient temperature

- -10 ... 55 °C

Setup

- save and write via USB-stick
- read, edit, print and write setup file using visualization software „MVRremote“ on PC

Power supply

- 115 / 230 V AC, 48 ... 63 Hz
- 15 ... 30 V AC / DC

Enclosure

- aluminum case for wall mounting with strip compartment
- protection IP 65

Dimensions (W x H x D)

- 240 x 240 x 120 mm (W x H x D)

Sensor connection

- terminals

EMC

- EN 61326, 89 / 336 / EWG