New!

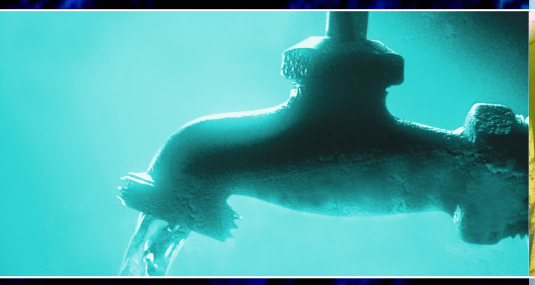
RIFLEX M1®
Automation and Telecontrol System

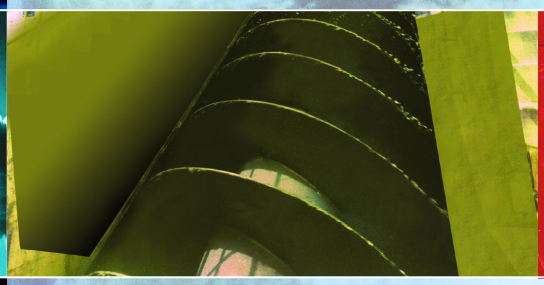
Performance
Intel processors ensure fast and reliable reactions

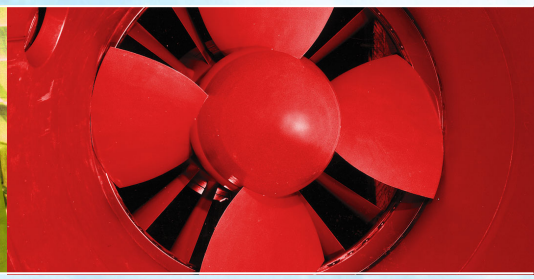
Open Communication
Standard protocols enable the connection of other systems or equipment and increase flexibility

Scalability
RIFLEX M1 can be variably extended and enlarged

Compatibility
RIFLEX M1 is fully compatible with previous systems



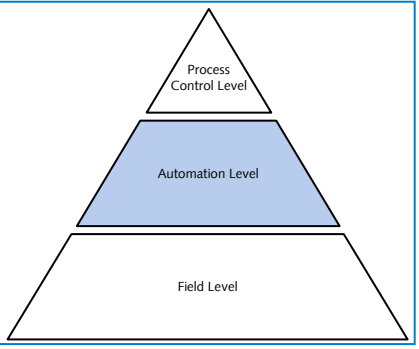




rittmeyer
you can count on us

Arguments in favour of RIFLEX M1

- Continuous object-orientated system together with the RITOP® Process Control System and the metrology products from Rittmeyer AG
- Almost unlimited communication possibilities with telecontrol on bus systems and networks
- Optimised for the water and energy supply industries, power stations and hydrography as well as process and environmental technology
- Investment protection by means of continuous and compatible technology
- A planning tool for all control systems



Hardware

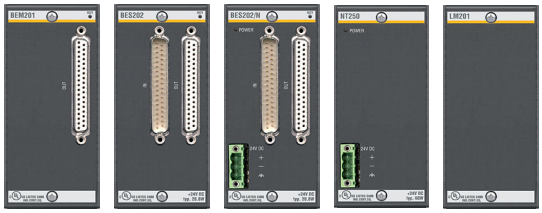
CPUs

RMMP213.E08 CPU P133MHz 8MB
RMMP213.E16 CPU P133MHz 16MB
RMME203.E CPU 386/33MHz, 8MB
RMME203.EN CPU with power supply 386/33MHz, 8MB

Communication modules

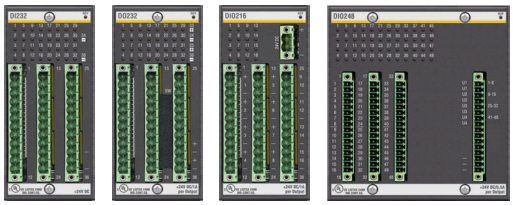
RMDPM200 Profibus DP Master
RMRS204.R Ser. IF 1xRS232, 3xRS232/422/485
RMHUB Ethernet Hub RJ45, 4 Ports

Bus expansion



RMBEM201 Bus expansion Master
RMBES201 Bus expansion Slave
RMBES201.N Bus expansion Slave with power supply
RMNT250 Power supply 24V, 45W
RMLM201 Spacer Slot protection

Digital I/Os

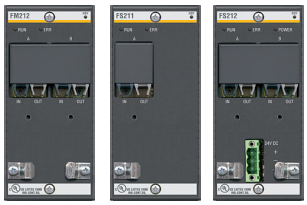


RMDI232 Digital Input Modul 32 Bit 24V / 48V
RMDO232 Digital Output Modul 32 Bit 24V / 48V
RMDIO216 Digital Input / Output Modul 16 I/O, 24V
RMDIO248 Dig.I/O Modul 16I, 16O, 16I/O, 24V

Analog I/Os

RMAI202 Analog Input Modul 2 Kan. 0..20mA
RMAI204 Analog Input Modul 4 Kan. 0..20mA
RMAO202 Analog Output Modul 2 Kan. 0..20mA
RMAO204 Analog Output Modul 4 Kan. 0..20mA
RMAIO288 Analog In/Out Modul 8xIn, 8xOut

FAST - bus expansion



RMFM212 FAST-Bus-Master Fibre opt. 2x
RMFM211 FAST-Bus-Slave Fibre opt. 1x
RMFS211 FAST-Bus-Slave Fibre opt. 2x

Software

Integrated Telecontrol System

- Object orientated continuity between RIFLEX M1 and the Process Control System RITOP

Processing

- Cyclic, calendar cyclic and spontaneous
- Logic and arithmetic functions
- Classical control functions
- Fuzzy logic
- Functional blocks and macros for our branches
- Cycle times up to 10ms (Pentium CPU)

Programming

- Graphical programming according to IEC1131-3
- Object orientated
- Over 100 functional block types and macros
- Signal lists – Import
- On-line Test
- Documentation

Diagnosis, Maintenance

- Remote diagnosis via Telnet (TCP/IP)
- Software download via FTP

Communication: Protocols

- RIFLEX Telecontrol (DIN 19'244)
- IEC60870-5-103
- IEC60870-5-104 (TCP/IP)
- MODBUS RTU (Master / Slave)
- PROFIBUS DP (Master)
- Radio clock
- Process control system RITOP
- Generalized third party system connection

Communication: Media

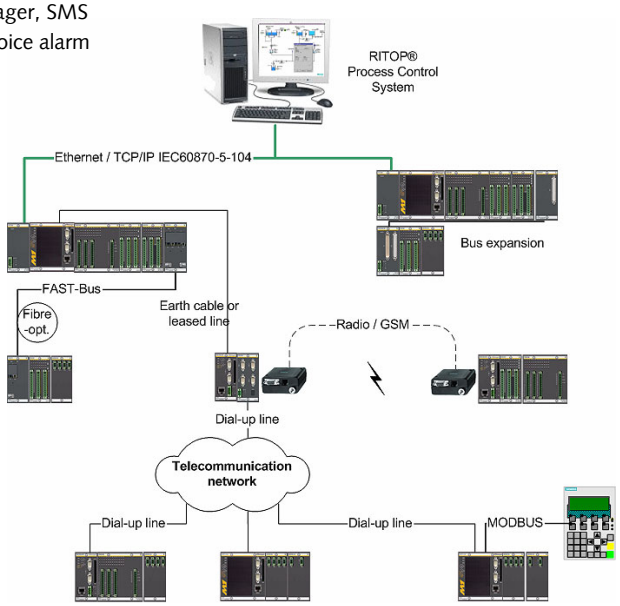
- Dedicated lines
  - Leased lines
  - Cu cable
  - Fibre-optics
  - Radio
  - Ethernet
- Switched lines
  - Analogue, ISDN
  - GSM
  - Infranet

Local Operation

- Graphical touch panels
- Text orientated Operator Panels

Alarm

- Pager, SMS
- Voice alarm



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