

Technical data series DE-VX 46xx

DE-VX 4601/4602



DE-VX 4604/4608



Control system

- Industrial computer system with high-capacity Intel Atom processor
- Integrated PLC, S5 and S7 compatible instruction set, max. program length: 60.000 instructions, time requirement of < 0,2ms per 1.000 Bit orders,
- up to 256 timer, 1024 messages, 1024 alarms (optional on delay)

Storage

- 1 GB working memory
- 4 GB Flash for operating program and configuration storage
- 4 MB RAM (battery-buffered for current process status store, treatment programs and measurement recording)

Interfaces/ Connections

All interfaces (incl. USB) are electrically isolated from the supply and system potential.

- 1x DIN-RS232
- 1x serially switchable DIN-RS232 /RS422/RS485
- 1x Gigabit Ethernet, TCP/IP protocol for configuration, telemaintenance, connection of supervisory system, Modbus/TCP
- Protocols, e.g. RK 512, Modbus, 3964R
- 3x USB 2.0 for external keyboard or printer
- Operating voltage 24V DC +/- 15%, max. 50 W
- 1 X Profibus-DP-Slave/Master (EN 50 170/DIN 19245 part 1) 9,6Kbit/s – 12Mbit/s, automatic bit rate recognition, EIA RS 485 cabling, DSUB-9-plug connector, electrically isolated. Max. each 244 Bytes input and output data (optional)

Display

- 7" color LC display, resolution 800x480 pixels

Operation

- Membrane keyboard (according to DIN EN 60529 IP protection 65), with alpha-numeric functionality
- Externally connectable USB keyboard
- Externally connectable USB mouse
- Unicode language support

Security

- Dual security functions by global and local watchdog functions
- Power failure monitoring
- Copy and know-how protection

Installation/ Assembly

- Front panel with integrated sealing IP65
- Ambient temperature 0...+45°C
- Relative humidity 0...90% non condensing at +40°C and under 3000m
- Storing temperature -20...+60°C
- Overvoltage category III (according to DIN EN 60664-1)
- Soiling stage 2 (according DIN EN 60664-1)

Assembly measurements

- DE-VX 4601/4602: 230mm x 185mm x 210mm (WxHxD)
- DE-VX 4604/4608: 280mm x 185mm x 210mm (WxHxD)

Measurements of rack-housing

- DE-VX 4601/4602: 240mm x 210mm (WxH)
- DE-VX 4604/4608: 310mm x 210mm (WxH)

Inputs/Outputs

- 8 analog inputs
- 4 analog outputs
- DE-VX 4601/4602: 32/64 digital inputs/outputs
- DE-VX 4604/4608: 64/128 digital inputs/outputs

Programmer/Controller

- Set points: 192
- Control tracks: 512
- Control loops: 1.024
- Limit values: 1.024
- Alarms: 1.024 (on delay) with alarm history
- Recorder: 64 process variables recordable

Input and output cards

Analog inputs (8):

- All 8 analog inputs are electrically isolated among each other from the system potential
- 20 bit resolution
- DC measuring possible
- Free combination of input types by configuration software
- Min. scanning interval 20ms
- Cold junction temperature measurement in connector
- Inputs configurable: 0 – 100mV, 0 - 500mV, 0 - 2V, 0 - 10V, 0 - 20mA, 0 - 400Ω (2/3/4-wire technique) (error < 0,1% of measuring range)

Linearization/ Thermocouples:

Cu-CuNi Type U (-200 ... +600 °C)
Fe-CuNi Typ L (-200 ... +900 °C)
NiCr-CuNi Typ E (0 ... +1000 °C)
Ni-CrNi Type K (-200 ... +1370 °C)
PtRh-AuPdPt (-100 ... +1300 °C)
PtRh13-Pt Typ R (0 ... +1740 °C)

PtRh10-Pt Type S (0 ... +1760 °C)
PtRh30-PtRh6 Typ B (0 ... +1800 °C)
WRe3-WRe25 (0 ... +2400 °C)
WRe3-WRe26 (0 ... +2500 °C)
NiCrSi-NiSi Typ N (-270 ... +1400 °C)
and Pt 100 (-200 ... +800 °C)

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Analog Outputs (4):

- All analog outputs are electrically isolated from the system potential
- Output rate depending on configuration (min. every 100ms)
- Local watchdog function integrated
- Outputs: 0-10V load $\geq 1k\Omega$, 0(4) - 20mA burden $\leq 500\Omega$
- Resolution: 12bit/0,025%

Digital IN/OUT (32/64 or 128 depending on device)

- 32, 64 or 128 inputs/outputs 24VDC, data direction freely configurable
- Electrically isolated in groups of 32 among each other and from the system
- State display by LED for each channel
- Integrated counter function with incremental encoder
- Hardware debouncing of all inputs, variable debouncing time
- All outputs are loadable with max. 0,5A (ohmic load), protected in groups of 8
- 20-30 V external supply for outputs with low voltage indication



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Subject to change!