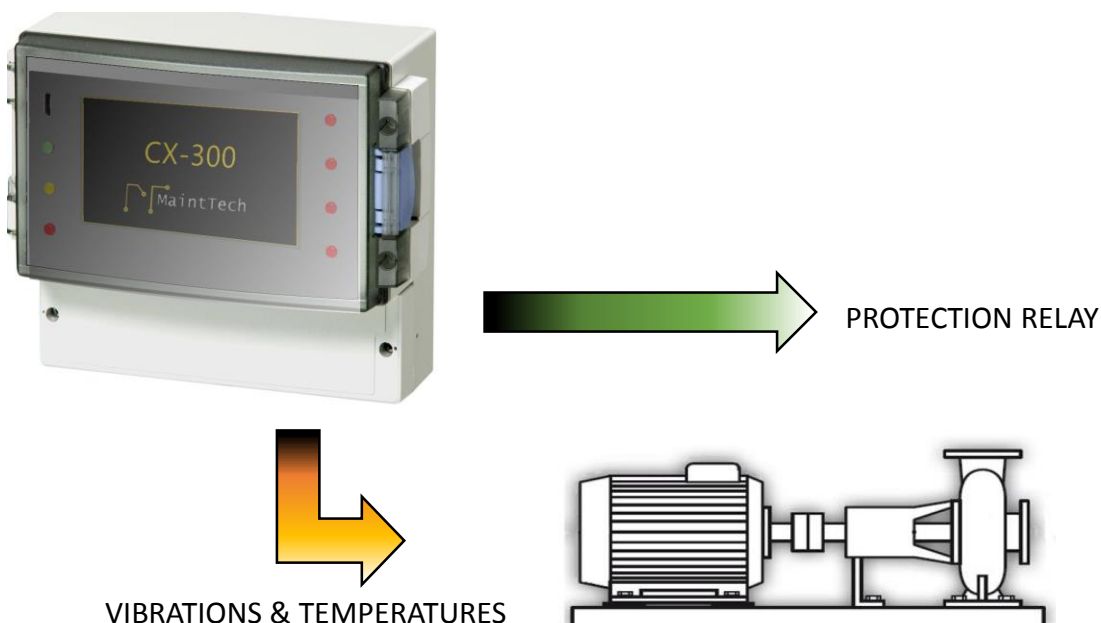


MaintTech CX-300

A complete vibration & temperature monitoring and protection system in a single enclosure

- Compact multi-channel vibration and temperature data acquisition system
- Four vibration input channels, suitable for ICP Accelerometers, velocity and displacement sensors
- High frequency range and resolution, suitable for wide variation type of machines
- Fast acquisition time, high sampling rate
- 4 to 20 mA output for all vibration channels
- Four temperature input channels for PT100 RTD (2 or 3-wires)
- One speed measurement channel
- Bearing fault estimator (BE)
- Two galvanic isolate digital input
- Protection system (CX300) with four software programmable output relay
- Programmable alarm multiplier during start-up
- Optional local LCD Display (3.5" TFT, 320 x 240 pixels, touch-screen navigation)
- Communication: 1 x USB Device, 1 x Ethernet 100 Mb
- Wide range for power supply (18 to 36 V dc)
- Low power consumption
- IP 65 protection
- Powerful [CX-MON300](#) visualization software (Server and Client), running on all Windows OS's.
- [CXConfig](#) Modules Configuration software

STAND-ALONE TYPICAL APPLICATION



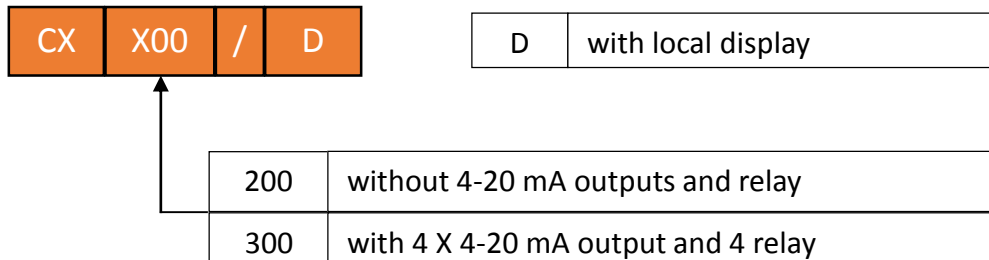
Technical Datasheet

Power supply voltage	+18V to +36V DC (Typically +24 V $\pm 10\%$)
Power consumption	15 VA typical; 20 VA max.
External Fuse (required)	T - type, max. 2 A
Vibration inputs	Accelerometer, Velocity and Displacement Sensors
Channels	4
Max. frequency	6400 Hz (configurable)
Amplitude range	20 V p-p
Spectrum lines	Up to 6400
Data acquisition	12 channels simultaneous (three gains for each input, no auto-ranging required)
A/D resolution	16 bits
Spectrum resolution	Selectable (0.5, 1 or 2 Hz)
Total value HPF	Selectable (none, 5 or 10 Hz)
Total value LPF	Selectable (from 200 to 6400 Hz)
Accelerometers supply	4 mA @ 24 V dc
Bearing estimator	Bearing Energy Coefficient (BE)
BE HPF	500 Hz
Temperature inputs	4 X PT100 (2 or 3 wires)
Channels	4
Temperature range	Selectable (Min. -50°C, Max 300 °C)
Speed input	1
Speed range	1 Hz to 5 KHz
Digital inputs	2 (Start-up and Relay Reset) 1 x 24V DC, optocoupled Power consumption: 7,5 mA / 24V, Isolation: 500V DC.
Outputs	
Analog	4 X 4-20 mA
Digital	4 relay 5A/250V max.
Communication interface	
For measurements	1 x Ethernet 100 MB (RJ-45)
For configuration	1 x USB Device (for configuration and upgrade)
Protection	IP 65 (with transparent door)
Working temperature	-10°C to +50°C
Storage temperature	-20°C to +70°C
Humidity	5 to 90% no condensation
Altitude	Up to 2000 meters above sea level
Enclosure	Safety of Information Technology Equipment EN 60950 RoHS directive 2002/95/EC
Flammability Rating	Complies with UL 508
UV resistance	Complies with UL 508
Case style:	DIN-Rail
Case material:	Polycarbonate
Case dimensions (mm):	188 x 160 x 106

Technical Datasheet

Weight	T.B.D
Display (Optional)	3.5" graphic TFT, 16-bit color, 320 x 240 pixels, touchscreen navigation
EMC	PN-EN 61326-1
Safety requirements	According to: PN-EN 61010-1 Installation category: II Pollution degree: 2 Voltage in relation to ground: 300V AC Isolation resistance: >20MΩ Isolation strength between power supply and input/output terminal: 1min. @ 2300V

Order code



Example: **CX200** Module without mA outputs, relay and display

Contact and Information

MaintTech

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www.mainttech.se

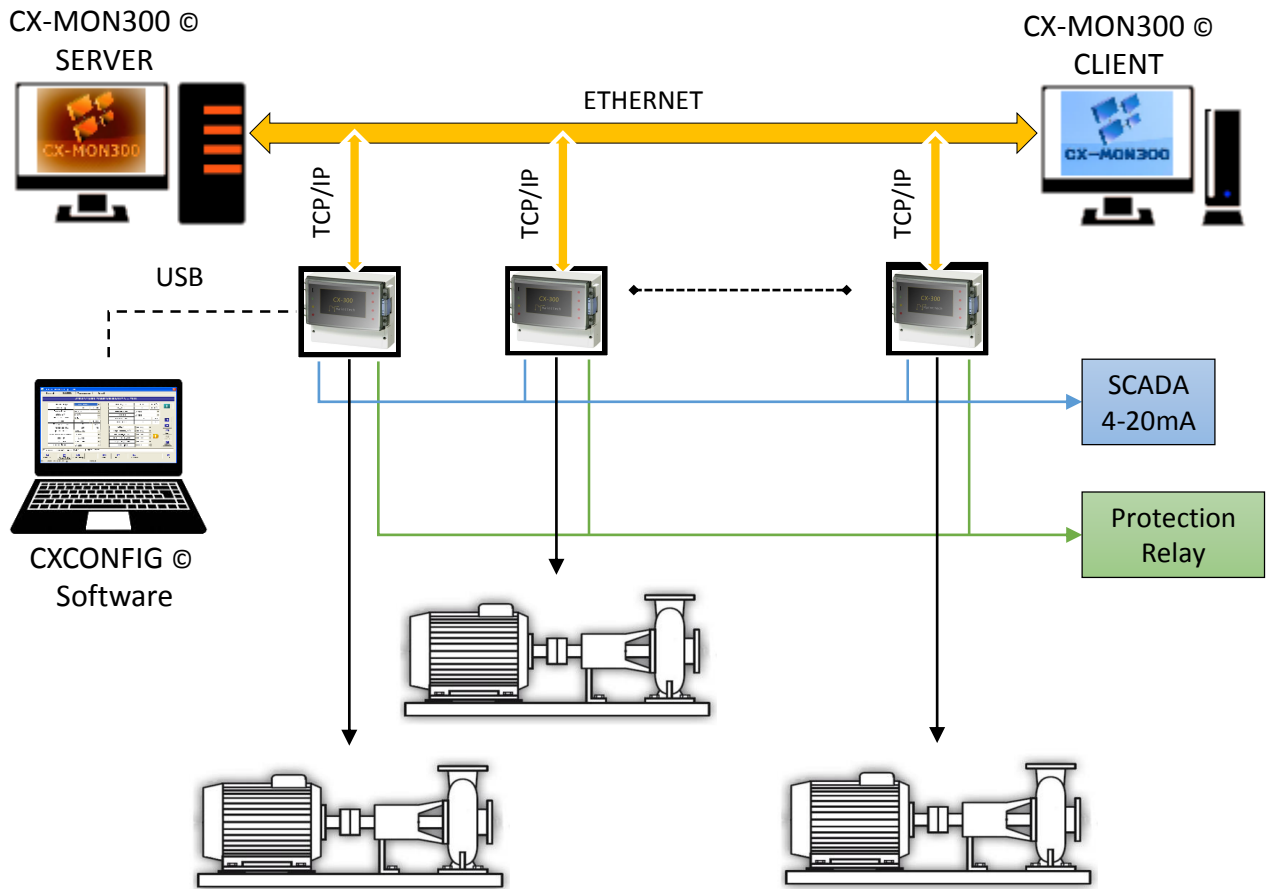
Visiting address

Norrköping Airport

SE-603 61 Norrköping

Sweden

Network Application



CX-MON300 Monitoring Software

