



19"-Measurement System

CANopen[®]

CAN
connected

EtherCAT[®]

MicroControl
Systemhaus für Automatisierung





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CANopen®

CAN
connected

EtherCAT®

The μ LAB-series is designed for a wide range of industrial and experimental research tasks. Highly efficient electronics and versatile functionality makes the μ LAB-series the perfect system for use in research and engine test bench environment.

Measurement systems with the standard size of 1 height unit are typically found in industrial test facilities. Systems in 19" technology offer high packing density, flexibility for connection equipment as well as the possibility of combining with products from other suppliers.

19"-Measurement System



CAN

The modules are equipped with a highspeed CAN interface supporting CAN 2.0A and CAN 2.0B. Higher layer protocols like CANopen, SAE J1939 and many customer specific protocols are also available.

EtherCAT

The new standard in measurement technology is the EtherCAT (CoE) interface. Our modules are equipped with an EtherCAT In and Out connector.

LEDs

Status information and self-diagnosis is displayed via LEDs during operation.

Fitting

Supply of signal and fieldbus chains is significantly simplified by use of connectors. A wide variety of connectors and customer specific solutions are also available for maximum flexibility.

| | μ LAB.x.ti-19" | μ LAB.x.ti-19" | μ LAB.x.ai-19" | μ LAB.x.ao-19" |
|---------------------|--------------------|--------------------|----------------------|-----------------------|
| Interface | CAN / EtherCAT | CAN / EtherCAT | CAN / EtherCAT | CAN / EtherCAT |
| Function | Temperature In | Temperature In | Analogue In | Analogue Out |
| I/O per module | 8 / 16 | 8 / 16 | 8 / 16 | 8 / 16 |
| Signal Type | Pt100 Pt1000 | thermocouple | +/-10V 0(4)..20mA | +/-10 V 0(4)..20mA |
| Accuracy | +/-0,1K | +/-0,5K | 0,01% fsd. | 0,01% fsd. |
| Resolution | >16bit | >16bit | > 16 bit | > 16 bit |
| Sample Rate | 5ms | 5ms | 5ms | 5ms |
| Supply Voltage | 9 .. 36V DC | 9 .. 36V DC | 9 .. 36V DC | 9 .. 36V DC |
| Working Temperature | -40°C .. +85°C | -40°C .. +85°C | -40°C .. +85°C | -40°C .. +85°C |

| | μ LAB.x.dio-19" | μ LAB.x.ci-19" | μ LAB.x.PWM-19" | μ LAB.x.rls-19" |
|---------------------|---|----------------------|---------------------------------|--------------------------|
| Interface | CAN / EtherCAT | CAN / EtherCAT | CAN / EtherCAT | CAN / EtherCAT |
| Function | Digital In/Out | Counter In | PWM Out | Relay |
| I/O per module | 8 / 16 | 8 / 16 | 8 / 16 | 8 / 16 |
| Signal Type | High Side I/O Low Side I/O 5..50V | 1Hz .. 500kHz SSI | High Side Low Side 5..50V | Relay 10A isolated |
| Accuracy | | +/-0,1Hz | | |
| Resolution | | | 0..100% (0,5% Step) | |
| Sample Rate | <1ms | | 25Hz..5kHz base frequ. | <4ms |
| Supply Voltage | 8 .. 50V DC | 8 .. 50V DC | 8 .. 50V DC | 8 .. 50V DC |
| Working Temperature | -40°C .. +85°C | -40°C .. +85°C | -40°C .. +85°C | -40°C .. +85°C |



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Customer specific solutions

The 19"-series family supplies sufficient performance for the majority of decentralised control and regulation tasks. As a leading manufacturer of CAN bus and EtherCAT equipment, we feel that we also offer the most comprehensive suite of customer specific, cost sensitive solutions.

Test us !

sales partner

