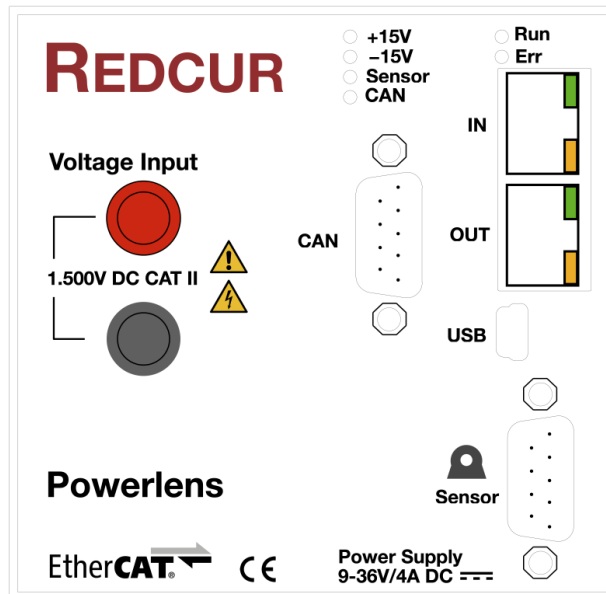


High Precision Current and Voltage Measurements over EtherCAT® and CAN bus.



Features

- 24-Bit $\Delta\Sigma$ -ADCs with Clock-Sync Sampling of Current and Voltage
- Electric Charge - Counting ΔQ , Q_+ , Q_-
- Electric Energy - Counting ΔW , W_+ , W_-
- $I_{max} \pm 2.000 \text{ A}$ (with SIGNALTEC CT-2000)
- $U_{max} \pm 1.500 \text{ V}$ - Single Range
- Power Supply for Current Transducer
- EtherCAT® Interface
- CAN Bus Interface
- 5kV Isolation Rating
- Calibration Service (optional)
- Supports CT Series Current Transducers from SIGNALTEC/LEM®
- Transducer Overload Detection
- Power Supply 9–36V DC

Standards / Compliance

- EtherCAT®
- CAN Bus ISO 11898
- EMC Emission and Immunity: EN

61326-1:2013

- Health and Safety: EN 61010-1:2010 / EN 61010-2-030:2010
- RoHS: EN IEC 63000:2018

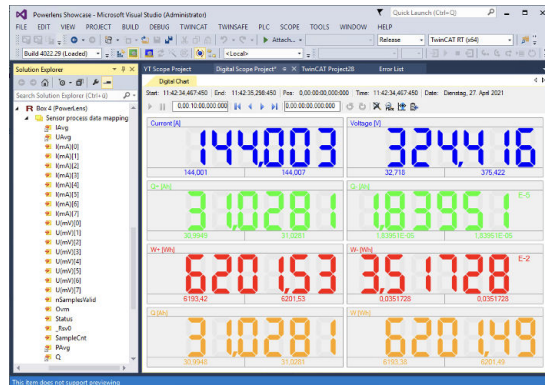
Applications

- End-Of-Line Testing
- In-House Calibration
- Control of Source-Sink Systems

EtherCAT® Parameters

- Averaged Current/Voltage/Power Values
- Array of 8 Current/Voltage Values for Bulk Transfer/Oversampling
- Operational Status / Overload Protection of the current transducer
- Counters for Electric Charge (Q_+ , Q_- and ΔQ) in Ah
- Counters for Electric Energy (W_+ , W_- and ΔW) in Wh
- Start/Stop/Reset mechanism for Q/W counters

- Overrun detection of AD converters (plus LED indicator)
- Offset - adjustable (manual/automated)


TwinCAT[®] Screenshot

CAN Bus Parameters

- Averaged Current/Voltage/Power Value
- Counters for Electric Charge (Q+, Q- and ΔQ) in Ah
- Counters for Electric Energy (W+, W- and ΔW) in Wh
- Start/Stop/Reset mechanism for Q/W counters
- Operational Status and Overload Protection of the LEM transducer
- Overrun detection of AD converters (plus LED indicator)
- Configurable CAN message ID
- Bit Rate (1Mbps max.)
- Measurement cycle

Specification

Parameter	Description
Power Supply	9–36 Volt DC
Power Consumption	5W + Current Sensor (see https://www.signaltec.de)
Mounting	DIN Rail
Weight	0.35kg
Dimensions (H×W×D) in mm	100×90×117
EtherCAT [®] Cycle Time (min.)	50μs
CAN Interface	D-SUB9 (CiA DS-102)
CAN Speed (max.)	1Mbps
CAN Cycle Time (min.)	1ms
ADC Resolution	24 Bit
ADC Technology	ΔΣ
Accuracy of Current Measurement	0.005% of Measuring Range
Accuracy of Voltage Measurement	0.0075% of Measuring Range
Maintenance Interface	USB
Current Sensor Interface	Proprietary D-SUB9
Phase Shift of Voltage Measurement	< 0,2° at 1.2kHz
Input Impedance	> 10MΩ 5pF
Bandwidth	1kHz
Isolation Rating	5kVrms

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