Technical Data

(H ×	۲ × 22 × 75 mm (د × w	S- pnisuoH snoisnemiD
	O₀ 06+ ¨ 0⊅-	Storage temperature
	-10 [°] +90 °C	
	_{qq} Am	Modulation current typ.
	Am ð	
	Ay 08	Quiescent current typ.
(50 120 V DC (by Tx-bus	Supply voltage
	$ m sm~002 \ge$	Reset time
	$sm 00 f \ge$	Deviation from transmission time
	s	Transmission time
	s S	Operating cycle / address
	F	Time windows (addresses)
S	1500 V DC at 10/700 µ	Transverse impulse stability at Tx-bus
	± 1 % full scale	Max. error
	0.1 % full scale	Resolution
	see ordering data	Measuring range

Ordering Data

	Further measuring ranges on request
XX = 22	Voltage , measuring range 0100 V DC
r2 = XX	Voltage, measuring range 00 V DC
XX = 20	Voltage, measuring range 01 V DC
21 = XX	Current, measuring range 01 A DC
rr = XX	Current, measuring range 0100 mA DC
74 = XX	Current, measuring range 420 mA DC
5r = XX	Current, measuring range 020 mA DC
0r = XX	Current, measuring range 010 mA DC
Order-no. 050601.0XX	S-AxTX rosnes egstiov bns egstioV
	· · · · · · · · · · · · · · · · · · ·

BA 056665.020/10.09

Addressable **Current- and Voltage Sensor** Housing type -S

Operating Instruction

XTxA

CE

We declare under our sole responsibility, that the product

EC Declaration of Conformity

LANCIER Monitoring

XTxA

For proper implementation of the health and safety requirements named in the EC directives the following standard(s) and/or technical specification(s) have been consulted:

equipment EN 61000-6-1 and 2 Interference resistance

EN 61000-6-3 and 4 Emitted interference

to which this declaration refers, meets the relevant health and

safety requirements of the following EC directives:

Low voltage directive

(fault-free operation)

Electromagnetic compatibility

Safety of information technology

Make: Type:

2006/95/EG

2004/108/EG

EN 60950

_ANCIER Monitoring ANCIER Monitoring Gmbl Gustav-Stresemann-Weg 11 48155 Münster, Germany

Tel. +49 (0) 251 674 999-0 Fax+49 (0) 251 674 999-99

@lancier-monitoring.de



© 2009 LANCIER Monitoring GmbH

Keep the operating instructions ready to hand!

Read and observe safety instructions

prior to initial operation!

damages. The operator carries the risk!

sional operation shall also be observed.

General Information

Important!! Safety Instructions

DC voltage and current.

Designated Use

.HdmD gnitotinoM





BA 056665.020/Rev. 00a



either complete or in extracts, before the specific consent of LANCIER This operating instruction must not be reproduced or made available,

Any non-compliant use excludes the manufacturer from liability for any

The XTxA current- and voltage sensor is designed to monitor electrical

the place of use, the recognized technical regulations for safe and profesthe prevention of accidents, applicable in the operator's country and at In addition to the operating instructions and the mandatory regulations for

for the prevention of accidents and the protection of the environment. The operating instructions endorse the directives of national regulations ensure safe, appropriate and cost-effective use of the equipment. acquainted with the product. They contain important information to These operating instructions should make it easier for you to become

operation to include setting-up, maintenance trouble-shooting. anyone assigned to work with/on the equipment, e. g. during These operating instructions shall be read and adopted by

ANCI Monitoring



Accident prevention!

All circuit lines must be dead before mounting or dismounting of the sensor or the opening of the sensor housing!

- The sensor should only be operated in technically-sound condition, for its designated use, with safety and risk awareness in mind, taking into account the operating instructions. In particular, operational faults, which can compromise safety, should be rectified immediately!
- Do not make any modifications to the sensor!
- Mounting, maintenance and repair work should only be performed by trained personnel!
- Only use original LANCIER Monitoring replacement parts!

Function

The XTxA is an addressable sensor for direct current and voltage levels e.g. to monitor cathodic corrosion protection or the state of charge of back-up batteries. The galvanic isolation of supply and measurement voltage prevents the measurement from influences by the measuring bus. The XTxA transduces the measured values into output frequencies of 1000 to 2000 Hz. The sensor is integrated into the monitoring system by the LANCIER Tx-bus.

The LANCIER Tx-bus

A maximum of 127 addressable sensors can be connected to one Tx-bus pair.

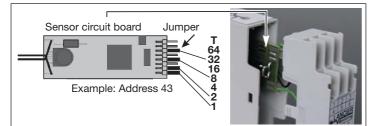
The measured values of all sensors connected to the LANCIER monitoring system are transmitted in time intervals. Therefore all sensors must be coded before installation.

Coding

Accident prevention!

All circuit lines must be dead before mounting or dismounting of the sensor or the opening of the sensor housing!

- Open the housing.
- · Lift side clamping straps with a screw driver.
- Important! Obey handling instructions. Electrostatic discharge (ESD) damage.
- Take sensor circuit board out carefully.
- Place the jumpers with needle-nose pliers according to the required address and the coding table next page.
- · Place the jumpers only on one pin if contact should stay open.



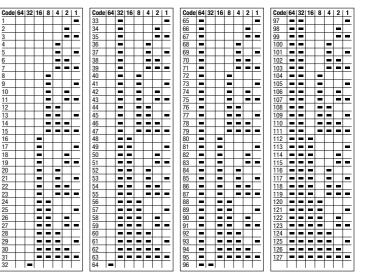
- The test bridge (T) must stay open.
- Mark the adjusted code onto the sensor label with a water-proof pen.
- Close housing:

Put sensor circuit board into housing. Place cables into cable bushing and close housing. Take care that clamping straps snap in properly.



Do not clamp the wires while closing the housing!

Coding table



Coding bridge closed

Coding bridge open

Function Test

Each sensor has to be checked with the LANCIER Testbox (Order-no. 050833.100) for accurate function and coding. The necessary steps are described in the manual of the Testbox.

Mounting

- Check sensor for correct address code (visually / Testbox).
- Fix sensor to a fixing bar.
- · Identify supervision pair and check it with the Testbox.
 - Connect sensor: Measuring line Voltage / current input Tx-bus

+ = terminal 10 - = terminal 11

Supervision pair

 $\mathbf{a} = \text{terminal 1 or 2}$ $\mathbf{b} = \text{terminal 4 or 5}$

• Check sensor function on pair with Testbox.



Check all sensors before use, in order to avoid later malfunction!