CE



EC Declaration of Conformity

in accordance with EC directives 98/37/EC

We declare under our sole responsibility that the product

LANCIER Monitoring Make: PTxA 210-PM Type:

to which this declaration refers, meets the relevant health and safety requirements of the EC directive 98/37/EC, as well as the requirements of other relevant EC directives.

73/23/EEC Low voltage directive 89/336/EEC Electromagnetic compatibility

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:

EN 61000-6-3/4 Emitted interference EN 61000-6-1/2 Interference resistance (fault-free operation)

Münster, 08 November 2006

Operating Instruction

PTxA 210-PM

Addressable Pressure Sensor



BA 062462.020/09.07

Order-no. 054471.000

Monitoring GmbH.

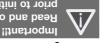
either complete or in extracts, before the specific consent of LANCIER This operating instruction must not be reproduced or made available,

© 2006 LANCIER Monitoring GmbH

prior to initial operation! It is imperative to read and observe all safety instructions

Keep the operating instructions ready to hand!

prior to initial operation! Read and observe safety instructions



Safety Instructions

damages. The operator carries the risk! Any non-compliant use excludes the manufacturer from liability for any ized cables.

The pressure sensor PTxA is designed to monitor the pressure in pressur-

Designated Use

sional operation shall also be observed. 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

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



tor 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

General Information

(H x W x J) mm 8f x 0E x 88 Dimensions Storage temperature O. 06+ " 07-Operating temperature 0° 07+ .. 02-Modulation current typ. .հ. 9.£ Rated DC current typ. Am 2.5 Quiescent current typ. 20 " 120 V DC Supply voltage $\leq 200 \text{ ms}$ Reset time $sm 001 \ge$ Deviation from transmission time Transmission time 2 G. F s 2 Operating cycle / address Time windows (addresses) 1500 V DC at 10/700 µs Transverse impulse stability at Tx-bus ∓ e mbar Max. error 1 mpsr Resolution

700 .. 2100 mbar

Technical Data

Measuring range

Mq-012 AxTq noene& shuesenq

Ordering Data



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 addressable pressure sensor PTxA monitors the absolute cable pressure over a range of 700 to 2100 mbar and transduces them into output frequencies between 700 and 2100 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

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!

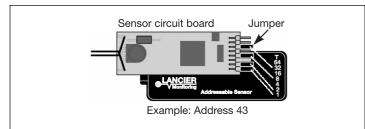
- · Open the housing.
- Lift side clamping straps with a screw driver.



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.



mportant

Do not clamp the wires while closing the housing!

Coding table

Code	64	32	16	8	4	2	1	Code	64	32	16	8	4	2	1	Code	64	32	16	8	4	2	1	Code	64	32	16	8	4	2	1
1								33		-					Œ∥	65	-						L≡۱	97	-	-					-
2						-	Ш	34		-				I	ШI	66	-					-	L I	98	-	-				-	
3						-	_	35		-				I	=	67	-					-		99	-	-				-	-
4					-		Ш	36		-			-			68	-				-			100	-	-			-		
5					-		௩	37		-			-		=	69	-				ı		Œ∥	101	-	-			-		-
6					-	-	П	38		-			-	•		70	-				-	-		102	-	-			-	-	
7					-	-	=	39		-			-	1	=	71	-				-	-		103	-	-			-	-	-
8				ı				40		-		•				72	-			-				104	-	-		-			
9				-	П		=	41		-		-			=	73	-			-			=	105	-	-	П	-			-
10		Г		•	П	-	\Box	42		-		-		•	\Box	74	-			-		-	\Box	106	-	-	П	-		-	
11				-		-	F	43		-		-		-	=	75	-			-		-	=	107	-	-		-		-	-
12				-	-		П	44		-		-	-			76	-			-	-			108	-	-		-	-		
13				-	-		=	45		-		-	-		=	77	-			-	-		=	109	-	-	П	-	-		-
14		Г		ı	-	-	\Box	46		-		-	-	ı		78	-			-	-	-		110	-	-	П	-	-	-	
15				-	-	-	=	47		-		-	-	-	-	79	-			-	-	-	=	111	-	-		-	-	-	-
16			-				Т	48		-	-					80	-		•					112	-	-	-				
17		П	-		П		┲	49		-	-				=	81	-	П	•				=1	113	-	-	-	П		П	-
18			-			_	\Box	50		-	-			-	\Box	82	-		-			-	\Box	114	-	-	-			-	
19			-			-	=	51		-	-			-	-	83	-		-			-	=	115	-	-	-			-	-
20			-		-		П	52		-	-		-			84	-		•		-		\Box	116	-	-	-		-		
21		П	-		-		┲	53		-	-		-		=	85	-	П	•		-		=1	117	-	-	-	П	-	П	-
22			-		-	_	\Box	54		-	-		-	-	\Box	86	-		-		-	-	\Box	118	-	-	-		-	-	
23			-		-	-	=	55		-	-		-	-	=	87	-		-		-	-	=	119	-	-	-		-	-	-
24			-	-			Г	56		-	-	-				88	-		-	-				120	-	-	-	-			
25			-	-	П		┍	57		-	-	-			=	89	=		-	-			=	121	-	-	-	-			-
26			-	-		_	\Box	58		-	-	-		-	\Box	90	-		-	-		-	\Box	122	-	-	-	-		-	
27			-	-		-	=	59		-	-	-		-	-1	91	-		-	-		-	=	123	-	-	-	-		-	-
28			-	-	-		\Box	60		-	-	-	-			92	-		-	-	-			124	-	-	-	-	-		
29			-	-	-		=	61		-	-	-	-		=1	93	-		-	-	-		ΞI	125	-	-	-	-	-		-
30			-	-	-	_		62		-	-	-	-	-		94	-		-	-	-	-		126	-	-	-	-	-	-	
31			-	-	-	-	=	63		-	-	-	-	-	=	95	-		-	-	-	-	=	127	-	-	-	-	-	-	-
32	П	-				T	\vdash	64	-	Т	П					96	-	=				Т	-	1	Т		Т				

Coding bridge closed

Function Test

Each sensor has to be checked with the LANCIER Testbox (Order-no. 050833.000) 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).
- Open sleeve.
- Fix sensor to a rod of the sleeve.
- Identify supervision pair and check it with the Testbox.
- Connect sensor:
 Connect supervision pair with the sensor's two green wires.
- Check sensor function on pair with Testbox.
- · Close sleeve.



Risk of damage to property!

If the sleeve is heated beyond the maximum allowed sensor storage temperature (90 $^{\circ}$ C) (e. g. for soldering the lead sleeve), the sensor must be wrapped with heat resistant material (paper tape i. a.) and placed in the sleeve's centre.



Important!

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

[□] Coding bridge open