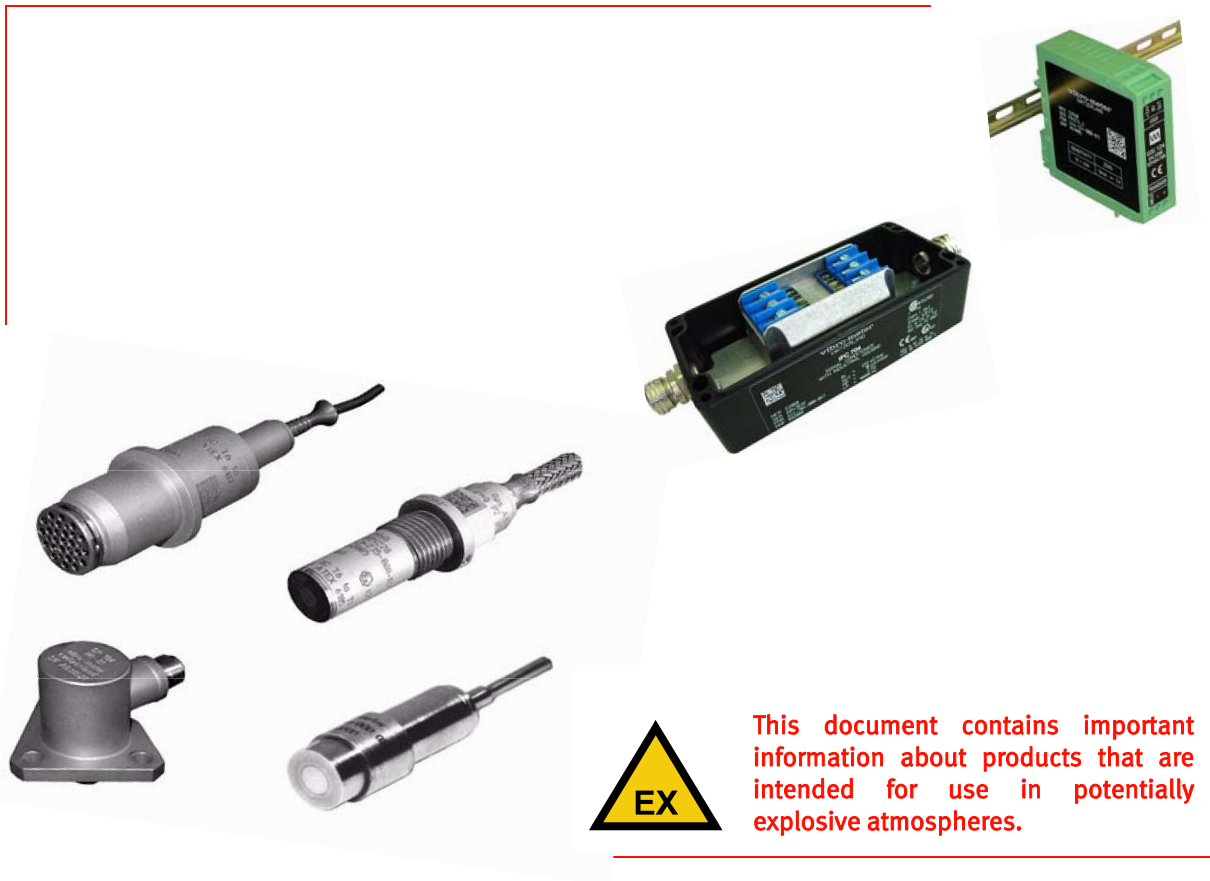


Installation Manual

Pressure Measuring Chains using “CP xxx” Piezoelectric Pressure Transducers



This document contains important information about products that are intended for use in potentially explosive atmospheres.

6 ELECTRICAL CONNECTIONS

6.1 General Precautions and Considerations

6.1.1 Cables in Explosive Atmospheres



THE LENGTHS OF THE CABLES (INTEGRAL CABLES AND CABLE ASSEMBLIES) INSTALLED IN AN EXPLOSIVE ATMOSPHERE **MUST BE DETERMINED AS PER THE CRITERIA MENTIONED IN THE EC TYPE EXAMINATION CERTIFICATE FOR THE PRODUCT.**

6.2 General Cabling Diagrams

NOTE : Information on connecting the equipment to the monitoring system can be found on the project-specific wiring diagram delivered with the system.

Additional information is given in the general cabling diagrams listed in Table 6-1.



| Measuring Chain Details and Transmission Type | Drawing Reference | See Figure Number |
|--|-------------------|-------------------|
| "CP xxx" pressure transducer with connector (type CG 505) + cable assembly + separate IPC 704 signal conditioner + 2-wire current-based transmission cable + GSI 124 galvanic separation unit | PZ 6775 | Figure 6-1 |
| "CP xxx" pressure transducer with integral cable + separate IPC 704 signal conditioner + 2-wire current-based transmission cable + GSI 124 galvanic separation unit | PZ 6774 | Figure 6-2 |
| "CP xxx" pressure transducer with connector (type CG 505) + cable assembly + separate IPC 704 signal conditioner + 3-wire voltage-based transmission cable  THIS MEASUREMENT CHAIN TYPE IS NOT SUITABLE AND MUST NOT BE INSTALLED IN EXPLOSIVE ATMOSPHERES | PZ 6776 | Figure 6-3 |
| "CP xxx" pressure transducer with integral cable + separate IPC 704 signal conditioner + 3-wire voltage-based transmission cable  THIS MEASUREMENT CHAIN TYPE IS NOT SUITABLE AND MUST NOT BE INSTALLED IN EXPLOSIVE ATMOSPHERES | PZ 6777 | Figure 6-4 |

Table 6-1 : Index of general cabling diagrams

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7 MAINTENANCE AND REPAIRS

7.1 Maintenance

7.1.1 General

No specific maintenance is required for the pressure transducers or associated equipment described in this manual.

NOTE : Any attempt by unauthorized personnel to modify or repair equipment still under guarantee will invalidate the warranty.

Refer to section 7.4 - Repairs for contact details for repairing defective hardware.

7.1.2 Equipment Used in Potentially Explosive Atmospheres



ANY MAINTENANCE WORK PERFORMED ON VIBRO-METER EQUIPMENT THAT CAN BE USED IN POTENTIALLY EXPLOSIVE ATMOSPHERES MUST RESPECT THE CRITERIA MENTIONED IN THE “EC TYPE EXAMINATION CERTIFICATE”.

REFER TO THE SAFETY MANUAL MENTIONED IN TABLE 1 (PAGE V OF THIS MANUAL) FOR FURTHER INFORMATION.

DO NOT ATTEMPT TO MODIFY OR REPAIR THESE PRODUCTS.

7.2 Repairs

NOTE : At the time of edition of this manual, the GSI 122 and GSI 130 Galvanic Separation Unit types are being replaced by the GSI 124 type and the IPC 620 Signal Conditioner type are replaced by the IPC 704 type.

Instructions for replacing these old units by new ones are given in the sections that follow :

- 5.4 - Replacing a GSI 122/130 by a GSI 124, page 5.6
 - 4.4 - Replacing an IPC 620 by an IPC 704 in its ABA 160, page 4.6
-

7.3 Technical Support

For technical advice, spare parts, troubleshooting site visits and general enquiries, customers should contact their local I&M Division representative. Your nearest representative can be found on the Vibro-Meter web site :

www.vibro-meter.com

Alternatively, customers can contact :

Vibro-Meter SA

Attn: I&M Customer Support

Route de Moncor 4

P. O. Box

CH-1701 Fribourg

Switzerland

Phone : +41 26 407 11 11 (Switchboard)

Fax : +41 26 407 15 55 (General Customer Support)

E-mail addresses :

support@vibro-meter.com (General Customer Support)

techsupport.ch@vibro-meter.com (Technical Support)

techpubs.ch@vibro-meter.com (Technical Documentation)

7.4 Repairs

For warranty repairs and replacements, customers should contact their local I&M Division representative. Your nearest representative can be found on the Vibro-Meter web site :

www.vibro-meter.com

Alternatively, customers can contact :

Vibro-Meter SA

Attn: Repairs Department

Route de Moncor 4

P. O. Box

CH-1701 Fribourg

Switzerland

Phone : +41 26 407 13 43 (Direct)

Fax : +41 26 407 17 05 (Direct)

E-mail : repairs.ch@vibro-meter.com

8 APPENDICES

| ATEX Certificate | For product type |
|-------------------------|--|
| LCIE_02_ATEX_6108_X | CP 10x |
| LCIE_02_ATEX_6107_X | CP 103 |
| LCIE_02_ATEX_6236_X | CP 11x |
| LCIE_02_ATEX_6106_X | CP 21x |
| LCIE_02_ATEX_6105_X | CP 23x |
| PTB_00_ATEX_1002 | ABA 15x / ABA 160 (Rose) / JB 116 /JB 118 / PA 151 |
| TUV_03_ATEX_2153_X | ABA 15X, ABA 160 (Bernstein) |
| LCIE_02_ATEX_6094_X | IPC 620 |
| LCIE_02_ATEX_6085_X | IPC 704 |
| LCIE_02_ATEX_6093_X | GSI 122 |
| LCIE_05_ATEX_6033_X | GSI 124 |

Table 8-1: List of the related ATEX certificates

| cCSAus Certificate | For product type |
|---------------------------|-------------------------|
| cCSAus_1202198 | CP 11x |
| cCSAus_1636189 | CP 23x |
| cCSAus_1243981 | IPC 704 |
| cCSAus_1545315 | GSI 122 |
| cCSAus_1699234 | GSI 124 |

Table 8-2: List of the related cCSAus certificates