

[13]

[14]

Schedule
EC-TYPE EXAMINATION CERTIFICATE No.
DEMKO 03 ATEX 134077X
Report: 134077-05/SR6661678

[15] Description of Equipment or protective system

MESO-HX is an isolated two-wire transmitter intended for temperature measurement in process industry. The input signal is either of resistance or voltage type (E.g. Thermocouples, Pt100, Pt1000 (up to 2000 ohm) and mV-inputs between -1V to +1V). The transmitter is calibrated and configured with a PC, through the output. The transmitter is intended to be mounted in hazardous area and is powered from an intrinsic safe power supply unit, which is mounted outside the hazardous area.

Nomenclature for type: NA

The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range	Temperature class
-40 °C to +85 °C	T4
-40 °C to +65 °C	T5
-40 °C to +50 °C	T6

Electrical data

Intrinsically safe specifications:

The equipment must be electrically connected (terminal 5 and 6) via an approved or certified galvanically isolated interface/ zener barrier placed outside the hazardous area.

Ui : 30 V	Uo : 30 V
Ii : 100 mA	Io : 25 mA
Pi : 0,9 W	Po : 190 mW
Li : 1 mH	Lo : 19 mH
Ci : 1 nF	Co : 31 nF

The terminals 1, 2, 3 and 4 of the transmitter may only be connected to transducers complying with 'Simple Apparatus' according to EN 60079-11 clause 5.7.

Installation instructions

The apparatus shall be installed into a enclosure at least IP20.

Mounting instructions

Refer to "Instructions".

[16]

Report No.

Project Report No.: 134077-05/SR6661678 (Hazardous Location Testing)

Documents:

The Schedule documents are listed in the document entitled "List of scheduled and related drawings", S-9063, dated 2010-08-20.

[13]

[14]

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[17]

Special conditions for safe use:

- The equipment must be electrically connected via an approved or certified galvanically isolated interface/zener barrier placed outside the hazardous area.
- The transmitter is calibrated and configured with a PC, which can be connected to the transmitter output (terminal 5 and 6). When programming the transmitter by PC and communication interface the intrinsically safe data shall be observed.
- The apparatus must be installed in an enclosure having an Ingress Protection for the actual use with an Ingress Protection at least IP20. The requirement from EN 60079-26, clause 4.5.2 (The chargeable non-conductive surface or its projection shall be limited to 400 mm² for apparatus of Group IIC) is not fulfilled. When mounted in Ex-compatible enclosures, such as junction boxes or DIN Standard Head, the requirement is fulfilled.

[18]

Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the ATEX directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

Additional information

"Isolation input/output/PC" of the Type MESO-HX mentioned in the data sheet, indicates signal isolation only. It shall not be interpreted as an IS galvanic isolation like an isolating barrier. Therefore ordinary care in selecting barrier and grounding should be considered.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

Certification Manager
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Notified Body

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