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Karandikar Laboratories



SUPPLEMENT 1

TE Report Number: KLPL/Ex/13-030

Issued On: 07.12.2017

- 1) Electrical Apparatus: **Differential Pressure Gauge, (Model PR10 & PR20)**
- 2) Name and Address of the Manufacturer: **Hirlekar Precision**
Plot No. 67, Hadapsar Industrial Estate, TP Scheme II, Ramtekadi, Pune- 411013, Maharashtra, INDIA.
- 3) This equipment and any acceptable variation thereto are specified in the schedule to this report and the documents therein referred to.
- 4) Karandikar Laboratories Pvt. Ltd. reports that this equipment has been found to comply with requirements of the following standards relating to the design and construction of electrical apparatus for explosive gas atmospheres.
IS/IEC 60079-0: 2011, IS/IEC 60079-1: 2007.
- 5) This **Supplement 1** is issued to the Original TE Report **KLPL/Ex/13-030**; dated: 16th June 2013.
- 6) This supplement is issued on account of up gradation in the compliance of "**Differential Pressure Gauge, (Model PR10 & PR20)**" to **IS/IEC 60079-0:2011 vide report no KLPL/Ex/HPIPL-13/001-A1; Dated: 07.12.2017** from the previous compliance which was as per IS/IEC 60079-0:2004. **Compliance as per other standards remains unchanged.**
- 7) The equipment covered by this TE REPORT has been reviewed against the requirements of IS/IEC 60079-0: 2011 in respect of the differences from IEC 60079-0: 2004 and that none of these differences affect this equipment.

The variations in the certificates referenced above are considered to comply with the relevant requirements of the standards IS/IEC 60079-0: 2011 also.

- 8) The marking of the Equipment shall remain the same and include the following:

Exd IIC T6 Gb



A. V. Karandikar

Ajit Karandikar - Director

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THIS SUPPLEMENT 1 IS VALID ONLY WHEN ATTACHED TO KLPL/Ex/13-030; dated: 16th June 2013.

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Karandikar Laboratories Pvt. Ltd.

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9) **Description of Equipment:**

The equipment is a Differential Pressure Gauge, (Model PR10 & PR20). The equipment consists of body and cover. The enclosure is manufactured by gravity die casting using an aluminium alloy HE30 material. The enclosure cover is fixed on the main housing forming threaded joint with thread size M80 X2P. The main body has "O" ring of size Ø3 mm made of Buna-N rubber for providing weatherproofness IP66. The enclosure is made up of two compartments one which houses the terminal strip & reed switch assembly and is of flameproof construction Exd and the other non-flame proof sensor assembly consisting of a magnet, diaphragm and a range spring. Model PR10 & PR20 are having similar flameproof main housing. Model PR20 Uses diaphragm sensor, hence HP & LP sides are completely isolated and Model PR10 is provided without diaphragm. The difference in high and low pressure causes the sensor assembly to move in proportion to the change against the range spring. A pointer attached to the rotary magnet indicates differential pressure on the dial. Reed switch located in the flame proof compartment and activated by the magnetic field. The enclosure cover is additionally secured by a locking Screw of size M4 X 10L to the main housing. Aluminium material Name plate is riveted on enclosure housing and displays the required product information.

The gross volume of the flameproof main housing is 200 cc and net volume is 190 cc.

10) **Electrical Data:** The Reed switch is designed for 3 VA to 100 VA.

11) **Ambient Temperature:** $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$

12) **Temperature Class:**

For the ambient range is -20°C to $+40^{\circ}\text{C}$. The temperature class of T6 is considered appropriate.

13) **Special Condition of Safe Use:**

- Nil.

14) **Documents & Certificates submitted along with the Test Report:**

| Drawing Number | Sheet | Rev.No | Date | Description |
|--------------------|----------|--------|------------|-----------------------------|
| DPG 12 30 05 ABS-1 | 01 of 02 | 01 | 05/12/2017 | PR10 GAUGE GENERAL ASSEMBLY |
| DPG 12 30 05 ABS-1 | 02 of 02 | 01 | 05/12/2017 | PR10 GAUGE GENERAL ASSEMBLY |
| DPG 13 30 06 ABS-1 | 01 of 02 | 01 | 05/12/2017 | PR20 GAUGE GENERAL ASSEMBLY |
| DPG 13 30 06 ABS-1 | 02 of 02 | 01 | 05/12/2017 | PR20 GAUGE GENERAL ASSEMBLY |

END OF THE DOCUMENT

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