PRESSURE AND DIFFERENTIAL PRESSURE TRANSMITTER TECHNICAL SPECIFICATIONS:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 1. Typical datasheet duly filled by transmitter supplier & to be submitted along   with bid document**:** | | |  |  | |
|  |  |  |  | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Pressure / Differential Pressure Transmitter Specification Data Sheet | | | | Sheet | 1 | of | 1 |
|  |  |  |  |
| Spec No. |  | Rev. |  |
| Contract |  | P.O. |  |
| Req. |  | By |  |
| Checked |  | Approved |  |
| Customer: |  | |  |  |  |  |  |  |
| Project: |  | |  |  |  |  |  |  |
| Plant Area: |  | |  |  |  |  |  |  |
| Unit: |  | |  |  |  |  |  |  |
| GENERAL | 1 | Tag No. |  | | | | | |
| 2 | Service |  | | | | | |
| PROCESS CONDITIONS | 3 |  | Minimum | Normal | Maximum | Design | Unit |  |
| 4 | Pressure | Ref Note | Ref Note | Ref Note | Ref Note | Ref Note |  |
| 5 | Process Temperature | Ref Note | Ref Note | Ref Note | Ref Note | Ref Note |  |
| 6 | Ambient Temperature | Ref Note | Ref Note | Ref Note | Ref Note | Ref Note |  |
|  | 7 | Manufacturer | Rosemount, Inc. (Emerson) / ABB / E&H / Yokogawa | | | | | |
| 8 | Model No. | 2051TA1A2B21AB4M5D4P8Q4Q8 | | | | | |
| 9 | Pressure Transmitter Type | Gauge/Absolute Pressure | | | | | |
| 10 | Calibrated Span | Vendor to provide | to | Vendor | Vendor |  |  |
| 11 | Adjustable Range | Vendor to provide | to | Vendor | Vendor |  |  |
| 12 | Output Signal | 4-20 mA with Digital Signal Based on HART Protocol | | | | |  |
| 13 | Over Pressure Rating | 150 bar |  |  |  |  |  |
| 14 | Enclosure Class | Enclosure Type 4X, IP 65, IP 66, IP68 | | |  |  |  |
| 15 | Power Supply | 24Vdc with load 600 ohms | | |  |  |  |
| 16 | Accuracy | +/- 0.075% of span for 10:1 turn down | | |  |  |  |
| 17 | Rangeability | 100:1 OR 50:1 |  |  |  |  |  |
| 18 | Scan Time | 22 times per second | |  |  |  |  |
| 19 | Power Supply Effect | Less than ±0.005% of calibrated span per volt. | | | |  |  |
| 20 | Electromagnetic  Compatibility (EMC) | EN 61326 and NAMUR NE-21. | | |  |  |  |
| 21 | Response Time | 100 msec |  |  |  |  |  |
|  | 22 | Diagnostics | Standard Self Diagnostics |  |  |  |  |  |
| BODY | 23 | Body | SS316 | | | | | |
| 24 | Drain / Vent | To be provided | | | | | |
| 25 | Process Connection | 1/2-14 NPT Female, Bottom entry | | | | | |
| 26 | Process Flange | To be provided | | | | | |
| 27 | Wetted O-Ring | To be provided | | | | | |
| 28 | Housing | Polyurethane-covered Aluminum | | | | | |
| 29 | Bolts | To be provided | | | | | |
| 30 | Mounting Brackets | Coplanar Flange Bracket for 2-in. Pipe or Panel Mounting | | | | | |
|  |  | SST |  |  |  |  |  |
| 31 | Conduit Entry Size | 1/2-14 NPT | | | | | |
| ELEMENT | 32 | Isolating Diaphragm/Sensor | 316L SST | | | | | |
| 34 | Fill Fluid | Silicone | | | | | |
| OPTIONS | 35 | Cert/Approval Type | Safe Area | | | | | |
| 36 | Display | LCD Display | | | | | |
| 37 | Zero and Span Adjust | Zero and Span Hardware Adjustments | | | | | |
| 38 | Transient Protection | To be provided | | | | | |
| 39 | Custom Configuration | To be provided | | | | | |
| MANIFOLD | 40 | Manufacturer | To be provided | | | | | |
| 41 | Model No. | To be provided | | | | | |
| 42 | Manifold Style | To be provided | | | | | |
| 43 | Manifold Type | To be provided | | | | | |
| NOTES | 44 | Vendor will size the transmitter based on process data provided by MIDC | | | | | | |
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| This report is provided according to the terms and conditions of the Instrument Toolkit™ End-Use Customer License Agreement. | | | | | | | | |
| Version: 3.0 (Build177C) | | | |  |  |  | Printed: | 09-01-2015 |  |

Notes

1. In case it becomes necessary to use a DP transmitter for pressure measurement then a 3 valve manifold should be used in place of 2 valve manifold .
2. Type of transmitter i.e. Gauge pressure or Absolute pressure, shall be as per specific requirement and as approved by MIDC /Consultant engineer
3. Process Data: Basis for transmitter sizing: