
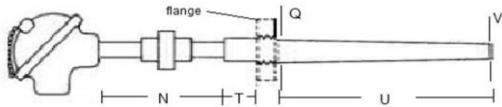


|  | | SIRJAN JAHAN STEEL DRI MEGA MODULE PLANT | | | | | | | Technical Office | |
|---|-----|---|--------------------|-------------|-------------------------|------------------|-----------------|--------------|-------------------------|-------------|
| | | | | | | | | | | |
| Datasheet for Reformer Thermocouples | | <i>Project No</i> | <i>Prepared By</i> | <i>Area</i> | <i>Phase</i> | <i>Disipline</i> | <i>Doc Type</i> | <i>Seq</i> | <i>Rev</i> | <i>Date</i> |
| | | | | | | | | | | |
| GENERAL | Row | Item | | | Client Datasheet | | | Vendor Offer | | |
| | 1 | TAG No | | | Reformer Floor & Roof | | | | | |
| | 2 | P&ID Sheet No. | | | - | | | | | |
| | 3 | Line / Equipment No. | | | - | | | | | |
| | 4 | Service | | | - | | | | | |
| SENSOR/ ELEMENT | 5 | Hazardous Area Classification | | | Safe (Note 6) | | | | | |
| | 6 | Sensor Type | | | Thermocouple | | | | | |
| | 7 | Thermocouple Type | | | R-type | | | | | |
| | 8 | Terminal Block | | | Single | | | | | |
| | 9 | Mounting | | | Pipe Mounting | | | | | |
| | 10 | Measuring Range (°C) | | | 0-1200 | | | | | |
| | 11 | U Length (mm) | | | 700 | | | | | |
| | 12 | Sheated Diameter | | | 6 mm | | | | | |
| | 13 | Nipple Size | | | 20 mm | | | | | |
| | 14 | Dimension "N" | | | 250 mm | | | | | |
| HEAD & TRANSMITTER | 15 | T length | | | 50 mm | | | | | |
| | 16 | Stem Length | | | VTA | | | | | |
| | 17 | Protection Tube | | | 200 mm ss310 | | | | | |
| | 18 | Output Signal | | | 4-20 mA - HART | | | | | |
| | 19 | Accuracy | | | ±0.1% | | | | | |
| | 20 | Wiring | | | 2 Wire Transmitter | | | | | |
| | 21 | Power Supply | | | 24 VDC (Loop Powered) | | | | | |
| | 22 | Electrical Connection | | | M20x1.5 | | | | | |
| THERMOWELL | 23 | Local Display | | | NO | | | | | |
| | 24 | Head | | | Screw Cap & Chain | | | | | |
| | 25 | TE to TT Distance | | | 70 m | | | | | |
| | 26 | Failure Alarm Output | | | - | | | | | |
| | 27 | Construction | | | Tapered | | | | | |
| | 28 | Root Diameter (Q) | | | 25 mm | | | | | |
| | 29 | Tip Diameter (V) | | | 19 mm | | | | | |
| | 30 | Outer Tube Diameter | | | 19 mm (VTC) | | | | | |
| MATERIAL | 31 | Inner Tube Diameter | | | 6.6 mm (VTC) | | | | | |
| | 32 | Connection & Size | | | Flange RF #150 1 1/2 in | | | | | |
| | 33 | Standard & Rating Connection | | | ASME B16.5 | | | | | |
| | 34 | Plug (cap) and chain | | | VTA | | | | | |
| | 35 | Head | | | Aluminium (VTC) | | | | | |
| | 36 | Fitting | | | SS 316 | | | | | |
| FLUID DATA | 37 | O.D. Material | | | VTA | | | | | |
| | 38 | Element Sheath | | | SS 316 | | | | | |
| | 39 | Thermowell Material | | | Inconel 601 | | | | | |
| MANUFACTURE DATA | 40 | Sensor Material | | | Ceramic C799 | | | | | |
| | 41 | Fluid | | | Flue Gas | | | | | |
| SCHEMATIC | 42 | Operating Temp. (deg C) | | | 950 | | | | | |
| | 43 | Max Temperature (deg C) | | | 1000 | | | | | |
| NOTES: | 44 | Manufacturer No. | | | Endress+Hauser | | | | | |
| | 45 | Model No. | | | TMT72-AAP2AAAA1 | | | | | |
|  | | | | | | | | | | |
| 1. VTA: Vendor To Advise, VTC: Vendor To Confirm 2. The transmitter is Rail mount (not Head mount). This will be located in a JB far from the TCs. 3. Thermowell for u≤500 mm shall be drilled and for u>500 mm shall be closed end tub. 4. All transmitters are installed in a safe area. | | | | | | | | | | |