



With you at every step



Keep up with COVID-19 by taking the right measures for your Steam Engineering products

Bringing you knowledgeable insights and information that will keep your Steam Engineering products up and running during and post lockdown period. Kindly refer to the Start-up Protocols for the product that is applicable to you.

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| CUSTOMER SERVICE BULLETIN |
| DOCUMENT No : SE/Startup Protocol/SFM_Orifice Type Rev: 00 |
| PRODUCT : STEAM FLOW METER ORIFICE TYPE |
| DIVISION : HEATING - STEAM ENGINEERING |

| P r e C h e c k u p | Checklist | | |
|---|--|-----|----|
| | Activities Need to done with Field Instruments | Yes | No |
| | 1 .Close the steam isolation valves of condensate pot. | | |
| | 2. Fill both condensate pots with RO water. | | |
| | 3. Remove air locks through DPT. | | |
| | 4. In 3way-manifold centre needle valve should be close & both L & H side needle valve in open position. | | |
| | 5. Now open the isolations valves so that steam pressure acts on both the CP. | | |
| | Activities Need to done in Control panel Room | | |
| | 6 Check the Incoming power supply it should be 230 Volt +/- 5% | | |
| | 7. Check the voltage between P-N voltage should be 230V. | | |
| 8 . Voltage between Neutral & Earth should be less than 3Volt AC. | | | |
| 9. Now Steam Flow meter is ready to measure the steam flow. | | | |
| 10. If required RESET the Totaliser reading. Steps GROUP-3 -PASSWORD = "xxxx" RESET -YES. | | | |

| T r o u b l e s h o o t i n g | Problem | Problem Cause | Solution |
|---|--------------------------------|---|---|
| | Display is not Coming | Fuse blown | Chcek Fuse if required change the fuse. |
| | | | If fuse OK then PCB card may blown. |
| | Showing Error (AOPN,BOPN,COPN) | INPUT A OPEN | DPT/PT/TT wire may be open check both ends. |
| | | INPUT B OPEN | DPT/PT/TT wire may interchange . DPT/PT/TT may |
| | | INPUT C OPEN | faulty |
| | Showing Error (AOVF,BOVF,COVF) | INPUT A OVER | Input A/B/C signal Exceed by 7%. Worn range selection. Short circuit. Steam pressure drops below minimum specified. |
| | | INPUT B OVER | |
| | | INPUT B OVER | |
| | Steam Flow not matching | Flow is below 30% | Check the logbook. Increase load |
| Paramters incorrect | | CNRT/REFL need to recheck with Engineering | |
| DPT | | Manifold inlet point choked need to chcek by opening drain valves. Again fill the RO water. | |
| Showing flow in No Flow condition | Lekage | Lekage in impulse tubing, orifice plate gasket, DPT drain valves. | |



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| Do's and Don'ts |
|--|
| Do's |
| 1. Connect the mains supply directly from the source. CVT rated for 230Vac/30VA is strongly recommended if mains supply is fluctuating. |
| 2. In manifold Middle (needle) valve should be close & both L & H side needle valve in open position. |
| 3. Both condensate pot should be in same level & above the process line |
| 4. Ensure there is no leakage from CP, Impulse tubing. |
| 5. If any leakages found isolate the system so DPT will not damage due to steam temperature. |
| Don'ts |
| 1. Don't loop the same supply for the SFM display which is used to drive high inductive switching loads like motors, pumps, solenoids coils etc. |
| 2. Don't open the equalization valve of manifold and close one side of manifold. |
| 3. Don't disturb the level of the both the CP during flushing or water filling. |

Thermax Limited Steam Engineering Services recommends customer to get in touch with the local service engineer as per details given below :

1st Level

| Region | Name of Service Engineer | Email id | Contact No |
|---------------------|--------------------------|-----------------------------------|------------|
| North (JK, PB, HR) | Puneet Panchal | Puneet.Panchal@Thermaxglobal.com | 9717200940 |
| North (UP, NCR, RJ) | Pradeep Kumar | Pradeep.Kumar@Thermaxglobal.com | 9717032325 |
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| West (MH, CG, GOA) | Saddam Gadiwan | Saddam.Gadiwan@Thermaxglobal.com | 7709973966 |
| West (GJ, MP) | Vipul Gohil | Vipul.Gohil@Thermaxglobal.com | 9662064627 |
| South (AP, KAR, TS) | Sandeep Jampala | Sandeep.J@Thermaxglobal.com | 8008145681 |
| South (TN, KL) | Noor Mohammed | Noor.Mohammed@Thermaxglobal.com | 8098734264 |
| MENA, SEA, SAARC | Tushar Nalawade | Tushar.Nalawade@Thermaxglobal.com | 8422044464 |

2nd Level

| Contact Person | Designation | Email Id | Contact No. |
|----------------|--------------------------------|---------------------------------|-------------|
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