



# With you at every step



## Empowering Your Steam Engineering Products and Solutions with Excellence

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.

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 = "****" 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 faulty
		INPUT C OPEN	
	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 out of calibration range	Check the loggbook. 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.



# With you at every step



## Empowering Your Steam Engineering Products and Solutions with Excellence

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.

Do's and Don'ts
<b>Do's</b>
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.
<b>Don'ts</b>
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 :

### 1<sup>st</sup> Level

Region	Name of Service Engineer	Email id	Contact No
North (JK, PB, HR)	Puneet Panchal	Puneet.Panchal@Thermaxglobal.com	9717200940
North (NCR, RJ)	Devesh Maurya	Devesh.Maurya@thermaxglobal.com	8880464848
North (UP)	Sachin Srivastav	Sachin.Srivastav@thermaxglobal.com	9411953067
East	Pranay Mridha	Pranay.Mridha@Thermaxglobal.com	9830240010
West (MH, CG, GOA)	Anil Asangi	Anil.Asangi@thermaxglobal.com	8484856043
West (GJ, MP)	Vipul Gohil / Himanshu Vasava	Vipul.Gohil@Thermaxglobal.com / Himanshu.Vasava@thermaxglobal.com	9662064627 / 9033551798
South (AP, KAR, TS)	Sandeep Jampala	Sandeep.J@Thermaxglobal.com	8008145681
South (TN, KL)	Noor Mohammed	Noor.Mohammed@Thermaxglobal.com	8098734264
MENA, SEA, SAARC	B Santhanakrishnan	B.Santhanakrishnan@thermaxglobal.com	9607971978

### 2<sup>nd</sup> Level

Contact Person	Designation	Email Id	Contact No.
Sathiyababu V.	Head - Technical Service Group	Sathiyababu.v@Thermaxglobal.com	9486620370