

Service One Pager



PRODUCT : EFFICIENCY MONITORING SYSTEM

Document No : SE/SOP/EFFIMONITOR Rev 00

Product

Effimonitor is online boiler efficiency monitoring system. It continuously monitors 15+ parameters in accordance to BS 845. It generates MIS in the form of historical data & trends.

EFFIMONITORING SYSTEM

PLC panel with SCADA software

Oxygen analyzer

RTD with TT

Boiler auto blow down system

Flow meters

Pressure transmitter

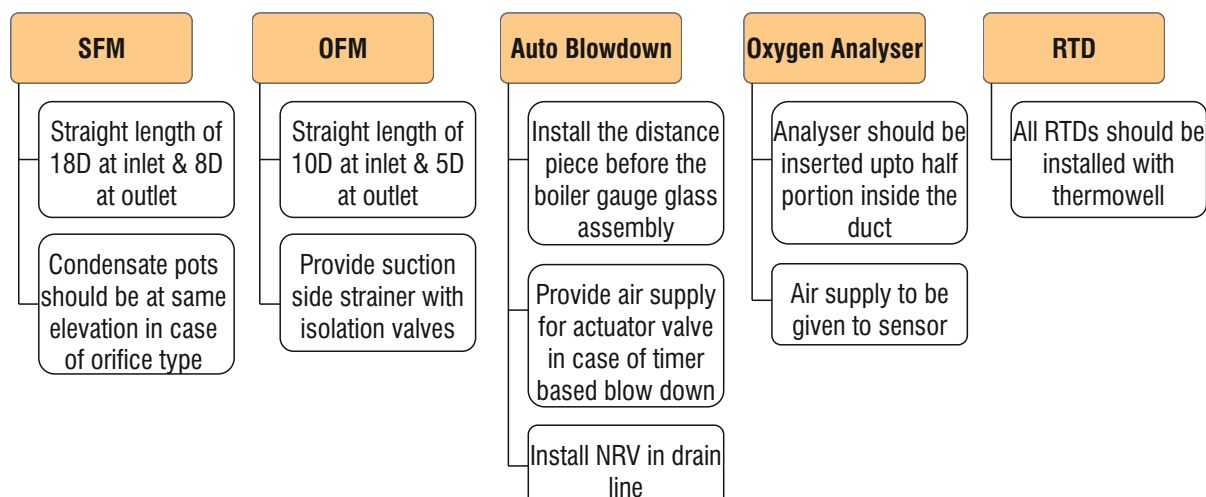
System Requirement

- 1 Single phase 230 Volts, UPS power supply.
- 2 Necessary IBR approvals should be obtained from local authorities.
- 3 Separate PC for installing SCADA development software.

PC Requirement for SCADA Installation

System size	Compact (<1, 20-0 pts)
CPU pass mark	1400
Cores	1
RAM	8 GB
HDD	10 GB
Graphics	DirectX 9 or later with WDDM 1.0 driver 64MB of dedicated VRAM
Screen resolution	1920 x 1080
Operating system	Windows 10, 8.1, 8 & 7 versions
Microsoft Excel	2007 or later, MS Excel 2013 (32 bit)
Ethernet communication cable from PC to Effimonitor panel.	

Installation



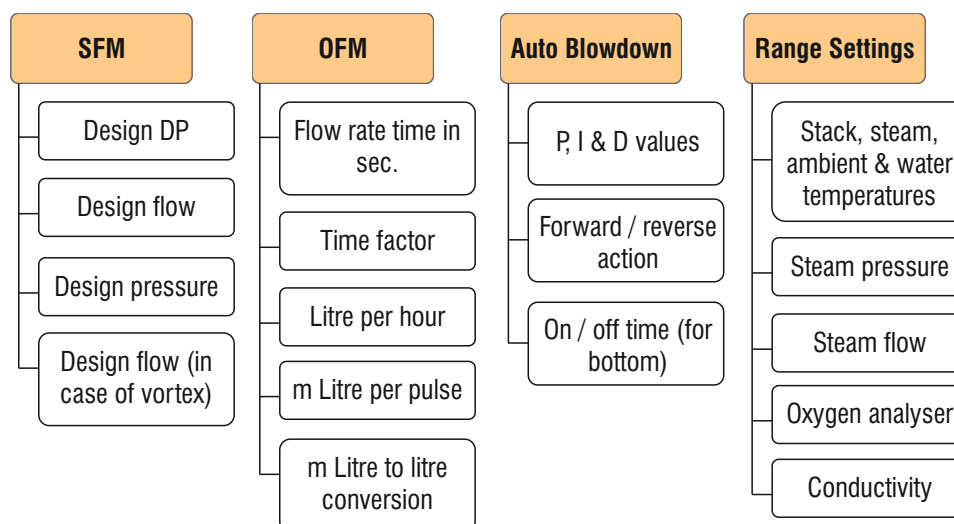
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Settings in PLC



All these settings are password protected.

Displayed Values

Steam to fuel ratio	Steam flow	Oil/gas flow
Indirect efficiency	Water flow (optional)	Steam pressure
Stack, steam, water & ambient temp	O ₂ %	Boiler water TDS

Troubleshooting

Symptoms	Possible Causes
No display of values in HMI	Parameter settings disturbed
	Loose cable connections
	Fuse blown off
	Analog input card fault
HMI not turning ON	No supply to HMI
	Cable loose connection
	MCB tripped
Values not matching with another instrument	Range setting disturbed
	Calibration disturbed
	Design parameters
No values in SCADA screen	Communication cable disturbed
	License key removed