

Specification of Mass Flow Sensors & Transmitters

1. Mass Flow Sensor + Mass Flow Transmitter (Type-4) (Quantity – 2 nos.)

Mass Flow Sensor

Specification	Description
Fluid	GN2
Flow rate (g/s)	1 to 30
Working Pressure (Barg)	130
Working Temperature (K)	220-320 K
End Connections	0.5in CL1500 ASME B16.5 F316/F316L WNRF
Pressure Drop Allowed at Max Flow	<0.8 Barg
Wetted Material	Nickel Alloy/SS316L
Sensor Series	Coriolis Deep U Type
Sensor Housing	304-series stainless steel with Rupture Disk
Electronics Housing	Polyurethane-painted aluminium
Conduit	1/2-inch NPT
Approvals	ATEX or equivalent
Accuracy	Better than 0.05% flow

Mass Flow Transmitter

Specification	Description
Transmitter Power Supply	Entire Transmitter remotely mounted with AC/DC auto switching facility
Transmitter Outputs	1. 4-20mA HART – Flow 2. 4-20mA – Density 3. 4-20mA – Temperature 4. Discrete Input
calibrations	Calibration with minimum 4 points for flow
Additional Feature	1. Transmitter should have data Logging facility & USB port for connecting Laptop. 2. Transmitter should Transmit Live/Raw Zero, Drive Gain over RS485 Modbus. 3. Transmitter should be capable of communicating with 475/Trex communicators.
Accessories	1. Mounting brackets, U clamps nuts & bolts to be supplied 2 Cable Glands DC type SS316 as per conduit shall be supplied 3. Software with necessary adapters for connecting Laptop shall be supplied