

### **3. Mass Flow Sensor + Mass Flow Transmitter (Type-3) (Quantity – 2 nos.)**

#### **Mass Flow Sensor**

<b>Specification</b>	<b>Description</b>
Fluid	GN2
Flow rate (g/s)	7 to 100
Working Pressure (Barg)	130
Working Temperature (K)	220-320 K
Accuracy	Better than 0.05% rdg
End Connections	0.5in CL600 ASME B16.5 F316/F316L WNRF
Pressure drop at max flow	<0.5 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

#### **Mass Flow Transmitter**

<b>Specification</b>	<b>Description</b>
Transmitter Power Supply	24VDC
Transmitter Outputs	<ol style="list-style-type: none"> <li>1. 4-20mA HART – Flow</li> <li>2. 4-20mA – Density</li> <li>3. 4-20mA – Temperature</li> </ol>
calibrations	Calibration with minimum 4 points for flow
Additional Feature	<ol style="list-style-type: none"> <li>1. Transmitter should have data Logging facility &amp; USB port for connecting Laptop.</li> <li>2. Transmitter should Transmit Live/Raw Zero, Drive Gain over RS485 Modbus.</li> <li>3. Transmitter should be capable of communicating with 475/Trex communicators.</li> </ol>
Accessories	<ol style="list-style-type: none"> <li>1. Mounting brackets, U clamps nuts &amp; bolts to be supplied</li> <li>2 Cable Glands DC type SS316 as per conduit shall be supplied</li> <li>3. Software with necessary adapters for connecting laptop shall be supplied</li> </ol>