

**INSTRUMENT SPECIFICATION SHEETS**

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<b>INSTRUMENT SPECIFICATION NUMBER:</b>	I102
<b>DEVICE:</b>	Compact Inline Flowmeter
<b>TAG:</b>	Refer to Instrument Index, Section 17700
<b>SERVICE:</b>	Refer to Instrument Index and P&ID
<b>PROCESS FLOW:</b>	Refer to Instrument Index, Section 17700
<b>OUTPUT:</b>	4 to 20 mA DC
<b>ACCURACY</b>	<3%
<b>REPEATABILITY</b>	<1%
<b>POWER SUPPLY:</b>	24V DC max 100 mA
<b>FLOWTUBE MATERIAL:</b>	To suit liquid being measured, size as shown on drawings
<b>ELECTRONICS ENCLOSURE:</b>	IP65
<b>MOUNTING:</b>	Inline sensor pipe
<b>ACCESSORIES:</b>	2 m moulded oilflex cable
<b>MANUFACTURER AND MODEL:</b>	Weber flow captor

**INSTRUMENT SPECIFICATION SHEETS**

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**INSTRUMENT SPECIFICATION NUMBER:** I105

**DEVICE:** Flow Switch

**TAG:** Refer to Instrument Index, Section 17700

**TYPE:** Thermal Dispersion

**SERVICE:** Refer to Instrument Index and P&ID

**RANGE:** Refer to Instrument Index, Section 17700

**REPEATABILITY:** <1%

**OUTPUT:** SPDT contacts rated 10 Amps @ 120 VAC

**POWER SUPPLY:** 120 VAC, 60 Hz, 1 Ø

**ENCLOSURE:** Polymer-coated aluminum, NEMA 4X rating

**MOUNTING:** ¾" NPT with 1" insertion length

**MANUFACTURER AND MODEL:** IFM  
Weber

**INSTRUMENT SPECIFICATION SHEETS**

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**INSTRUMENT SPECIFICATION NUMBER:** I115

**DEVICE:** Pressure Switch

**TAG:** Refer to Instrument Index, Section 17700

**SERVICE:** Refer to Instrument Index and P&ID

**PROCESS CONNECTION:** ½" NPTF

**SENSOR:** Brass Bellows

**RANGE:** Refer to Instrument Index, Section 17700

**MOUNTING:** Bottom, Stem mounted

**ENCLOSURE:** NEMA 4X

**OUTPUT:** Form C Contacts rated 5 amps @ 120 VAC

**MANUFACTURER AND MODEL:** Ashcroft  
United Electric  
Barksdale

**INSTRUMENT SPECIFICATION SHEETS**

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**INSTRUMENT SPECIFICATION NUMBER:** I120

**DEVICE:** Liquid Level Transmitter

**TAG:** Refer to Instrument Index, Section 17700

**TYPE:** Ultrasonic

**SERVICE:** Refer to Instrument Index and P&ID

**RANGE:** Refer to Instrument Index, Section 17700

**INACCURACY:**  $\pm 0.5\%$  of span

**OUTPUT:** 4 to 20 mA DC into 500 ohm load  
5 configurable alarm relays

**POWER SUPPLY:** 120 VAC, 60 HZ

**ENCLOSURE:** NEMA 4X Transmitter Housing  
NEMA 4X Sensor

**MOUNTING:**

(TRANSMITTER)	Wall Mount
(SENSOR)	Provide PVC pipe stilling well where shown on the drawings and in accordance with manufacturer's recommendations to ensure stable readings in turbulent locations. Mount sensor on stilling well. Install sensors at least 300 mm above maximum liquid level. Provide PVC blind flange for mounting sensor.

**ACCESSORIES:** 1 - hand-held programmer

**MANUFACTURER AND MODEL:** Siemens Multiranger 100/200  
Magnetrol  
Endress & Hauser

**INSTRUMENT SPECIFICATION SHEETS**

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**INSTRUMENT SPECIFICATION NUMBER:** I125

**DEVICE:** Float Switch

**TAG:** Refer to Instrument Index, Section 17700

**SERVICE:** Refer to Instrument Index and P&ID

**OUTPUT:** SPDT Contacts

**ENCLOSURE:** Polypropylene float casing with preterminated signal cable

**MOUNTING:** Provide strain relief-type connectors to suspend float at desired location. Fabricate mounting brackets from 316 SS. Provide anti-sway rings to prevent sway in turbulent tanks.

**MANUFACTURER AND MODEL:** Flygt ENM-10  
Consolidated Electric  
Warwick  
Magnetrol

**INSTRUMENT SPECIFICATION SHEETS**

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<b>INSTRUMENT SPECIFICATION NUMBER:</b>	I126
<b>DEVICE:</b>	Conductivity Level Switch
<b>TAG:</b>	Refer to Instrument Index, Section 17700
<b>SERVICE:</b>	Refer to Instrument Index and P&ID
<b>RANGE:</b>	4 conductivity measuring ranges selectable via dip switches
<b>OUTPUT:</b>	SPDT Contacts
<b>POWER SUPPLY:</b>	120 VAC, 60 HZ
<b>ENCLOSURE:</b>	PBT Housing; Polypropylene rod insulation
<b>MOUNTING:</b>	Provide PVC blind flange for mounting probes.
<b>MANUFACTURER AND MODEL:</b>	Endress & Hauser

**INSTRUMENT SPECIFICATION SHEETS**

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**INSTRUMENT SPECIFICATION NUMBER:** I130

**DEVICE:** Temperature Indicating Transmitter with RTD Sensor

**TAG:** Refer to Instrument Index, Section 17700

**SERVICE:** Ambient Air

**RANGE:** 0°C to 50°C

**INACCURACY:** ±0.5% of span

**INDICATION:** 3½ Digit LED display scaled in engineering units

**OUTPUT:** 4 to 20 mA DC into 500 ohm load

**POWER SUPPLY:** Loop powered

**ENCLOSURE:** Transmitter: NEMA 4X  
RTD Probe: 5 mm dia x 100 mm L ambient air probe

**MOUNTING:** Wall mounting

**MANUFACTURER AND MODEL:** Rosemount Type 3044C  
ABB  
Foxboro

**INSTRUMENT SPECIFICATION SHEETS**

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**INSTRUMENT SPECIFICATION NUMBER:** I131

**DEVICE:** Temperature Indicating Transmitter with RTD Sensor

**TAG:** Refer to Instrument Index, Section 17700

**SERVICE:** Process Water

**RANGE:** 0 - 100°C

**INACCURACY:** ±0.5% of span

**INDICATION:** 3½ Digit LED display scaled in engineering units

**OUTPUT:** 4 to 20 mA DC into 500 ohm load

**POWER SUPPLY:** Loop powered

**ENCLOSURE:** Transmitter: NEMA 4X  
RTD Probe: Platinum 100 OHM Spring Loaded

**MOUNTING:** Direct to process, use a thermowell with 50 mm insertion at a pipe tee or elbow fitting

**MANUFACTURER AND MODEL:** Rosemount Type 3044C  
ABB  
Foxboro

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**END OF SECTION**