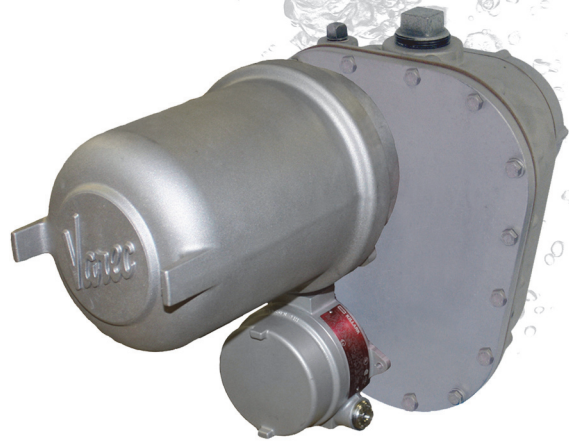


8200 Current Output Transmitter

Transmit your liquid level to inventory, alarm or relay systems via an analogue (4 to 20 mA) signal

Varec®

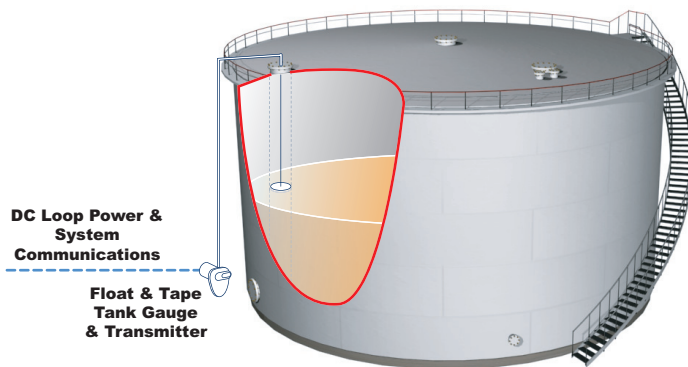


Highlights

- Mounts directly to the 2500 ATG, 2592 Cover Position Indicator and 6700 Liquid Level Indicator
- Mounting adapters available for other standard float gauges
- Nine (9) different factory calibrated level ranges are available.
- Two wire, industry standard output or 4-20 mA or 10-50 mA, jumper selectable
- Automation and control - Activate alarms or relays with two or four optional SPDT cam-operated switches
- 115 or 230 Vac on-board power supply available
- Highly accurate – 0.25% over full range
- Fully approved to FM, cFM, ATEX and IECEx

Application

The 8200 Current Output Transmitter (COT) is a precision analogue transmitter designed to relay level information via field communications to the control room.



Example Tank Gauging System

The mechanical drive coupling rotates in response to changes in liquid level. In turn, the 8200 COT's potentiometer records this as a current change and then transmits these changes (4-20 mA or 10-50 mA signal) as a level measurement to a local display or the control room system.

As standard configuration, there is an increase in current output with a rising level (innage), but the transmitter may be configured for a "reverse" (outage) reading output.

Technical Specifications

Functional

Encoder	Incremental Brush Encoder
Gearing system	Stainless steel, direct drive
Accuracy	0.25% at 100% span, 0.35% at 45% span
Output	4-20 mA or 10-50 mA, jumper selectable
Range adjustment	50-100% range
Span adjustment	45-105%
Allowable loop resistance (loop plus line)	8200 COT with 48 Vdc by user: 1500 Ohms (max) 8200 COT with integral DC supply: 500 Ohms (max)
Signal wires	4-20 mA, two (2) conductors
Limit switches	Two (2) or four (4) SPDT limit switches can be supplied as an option. They have the following ratings: 20 A @ 125, 250, 460 VAC 10 A @ 125 VAC Tungsten filament Lamp Load 1 HP @ 115 VAC, 2 HP @ 250 VDC 1/2 A @ 125 VDC, 0.25 A @ 250 VDC normally open or normally closed

Physical

Net weight	16 lb (7.3 kg)
Shipping weight	25 lb (11.3 kg)
Enclosure	Explosion proof cast aluminium, Rated IP65 (NEMA 4)
Conduit entries	Enclosure: 2 x 3/4" NPT (standard configuration uses one entry) Terminal junction box: 2 x 3/4" NPT

Environmental

Op. temperature	-13 °F to +185 °F (-25 °C to +85 °C)
Operating humidity	0 to 95% non-condensing

Power

Power requirements	15 to 48 VDC (user supplied) 115 VAC \pm 10% 50/60 Hz (on board 30 VDC power supply) 230 VAC \pm 10% 50/60 Hz (on board 30 VDC power supply)
Operating voltage	15 VDC – minimum 48 VDC – maximum

Order Codes

	Power Input
0	15 - 48 VDC
1	115 VAC
2	220 - 240 VAC

	Level Ranges
1	0 to 12.5 ft
2	0 to 25 ft
3	0 to 50 ft
4	0 to 100 ft
5	0 to 3.75 m
6	0 to 7.5 m
7	0 to 15 m
8	0 to 24 m

	Approvals
0	FMus- Explosion Proof - Class I, Division 1, Groups C & D T5 Ta = +85 °C: Flameproof Class I, Zone 1, AEx d IIB T5 Ta=+85°C, Enclosure NEMA 4
1	cFM- Explosion Proof - Class I, Division 1, Groups C & D T5 Ta = +85°C: Flameproof Class I, Zone 1, Ex d IIB T5 Ta=+85°C, Enclosure NEMA 4
2	ATEX - Flameproof - Ex II 2 G, Ex d IIB T5 Ta = +85°C
3	IECEx - Flameproof - Ex d IIB T5 Ta = +85°C

	General Options
0	Additional option not used
1	2 SPDT Switches (Normally Open)
2	4 SPDT Switches (Normally Open)
3	Reverse reading
4	Reverse Reading with 2 SPDT Switches (Normally Open)
5	Reverse Reading with 4 SPDT Switches (Normally Open)

	Junction Box
0	None
1	Junction Box

N8200-						Complete Designation
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Authorised Representative

If no official representative is listed here, please visit www.varec.com to find your local representative.
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