

# 8200 Current Output Transmitter

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

**Varec**<sup>®</sup>

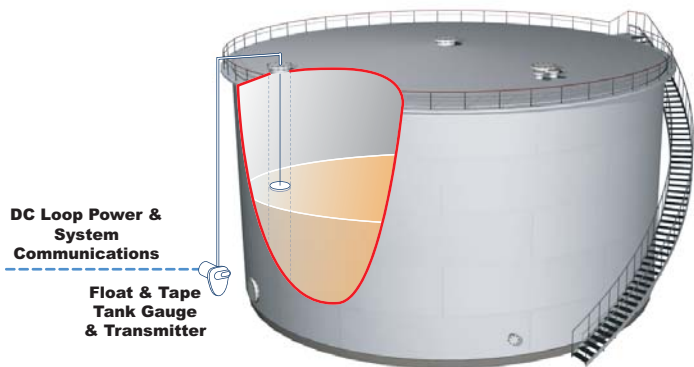


## Highlights

- 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

<b>Encoder</b>	Incremental Brush Encoder
<b>Gearing system</b>	Stainless steel, direct drive
<b>Accuracy</b>	0.25% at 100% span, 0.35% at 45% span
<b>Output</b>	4-20 mA or 10-50 mA, jumper selectable
<b>Range adjustment</b>	50-100% range
<b>Span adjustment</b>	45-105%
<b>Allowable loop resistance (loop plus line)</b>	8200 COT with 48 Vdc by user: 1500 Ohms (max) 8200 COT with integral DC supply: 500 Ohms (max)
<b>Signal wires</b>	4-20 mA, two (2) conductors
<b>Limit switches</b>	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

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

### Environmental

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

### Power

<b>Power requirements</b>	15 to 48 VDC (user supplied) 115 VAC ± 10% 50/60 Hz (on board 30 VDC power supply) 230 VAC ± 10% 50/60 Hz (on board 30 VDC power supply)
<b>Operating voltage</b>	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

