



Weatherford®

Plunger Lift

CEO™ Two Plunger-Lift Controller

Weatherford's *CEO Two* plunger-lift controller is designed to provide automatic high/low-pressure shutdown with optional reset. The *CEO Two* controller accepts analog as well as digital input, including data sent from Murphy switches, float switches, and other types of sensors. This versatile controller can operate in three different modes: time-based, single-valve, and double-valve.



Applications

- Simple plunger-lift operations
- High/low shutdowns
- Conventional intermitting (stop-cocking)
- Wells just beginning to liquid load
- Sour-gas applications (with remote solenoid)



Features, Advantages and Benefits

- Simple controls and settings allow for easy configuration, minimizing operator error.
- Optional solar panel extends battery life during daylight hours, reducing operating costs.
- Low-power-consumption unit enables extended run times with limited power source.
- NEMA 4, watertight casing provides superior protection against the elements, making the *CEO Two* controller ideal for use in harsh environments. In addition, the internal electronic components are specially coated, preventing damage caused by corrosion, humidity, and extreme temperatures.
- Standard event logger accurately records plunger cycle time as well as plunger arrivals.
- Automatic high/low shutdown with optional reset conditions allows operator preference on safety controls.
- The controller can use a Murphy switch to optimize control beyond the timer settings.
- Remote solenoid enables use of the controller in sour-gas applications without exposing it to damaging gases.





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Specifications

Analog Input Channels	
Number of channels	1 input (1 to 5V or 0 to 5V)
Accuracy	0.1% of full scale after factory calibration
	Switched analog voltage to transmitter(s)
Input impedance	2 Meg ohm, 12-bit resolution

Digital Input Channels	
Number of channels	3 digital inputs
	3.3V open circuit
	65-mA short-circuit current
	Dry contact only, 1 K maximum

Digital Output Channels	
Number of channels	4 digital outputs
Rated output	6V maximum, open collector output
	2-amp pulsed current
	Switched battery voltage to end device (solenoid typical)

Power Consumption	
Nominal	72 MW (12 mA at 6V)
Display active	150 MW (26 mA at 6V)

Onboard Memory	
Flash	64 KB



Options

- Class 1, Division 1 latch valve
- CSA certification for Class I, Division 1, Gas Groups C and D

Certifications

- The CEO Two is CSA certified for Class 2258-02, Process Control Equipment for Hazardous Locations, Class I, Division 2, Groups A, B, C, and D.
- Compliance with the EX ATEX Directive 94/9/EC for service in Class I, Zone 1, Gas Group IIB, Explosive Atmospheres, is pending.