

# CD42-SWX

## Pressure Activation Modules for use with CD42 Transmitters



**Pressure Activation** - Often, pipeline pigging is scheduled weeks, months or a full season in advance. An SWX module activates your CDI transmitter when it's needed – when the pigs start moving – and not before. Battery consumption prior to pressure activation is zero, so your transmitter will be ready to work when you need it.

**Pick Your Pressure** - CD42-SWX pressure activation modules are calibrated at CDI to activate your transmitter at the pipeline pressure you specify. Available ON pressures start as low as 15 PSI and go as high as 3,000 PSI [1 to 207 bar].

**Latching or Non-Latching** activation is up to you. A simple flip of a small internal switch and your transmitter will “latch” (switch) ON and remain ON once activation pressure is reached. Set the switch for non-latching and your transmitter's ON state will follow pipeline pressure, that is, the transmitter will turn ON when the pressure is above the set-point and turn OFF when pressure falls below the set-point.

**Retrofit** our popular CD42-T1A, T1A-HP, or T1AVHP stainless steel transmitters\* by simply removing the threaded cap and replacing it with a CD42-SWX module! Once the tracking work is finished, returning your transmitter to standard behavior is merely a matter of re-installing the cap.



**Complex Behaviors** are no problem. When a CD42 transmitter is teamed with a CD42-SWX, the transmitter's already powerful programmability of delay-ON times, custom pulse patterns, constant-ON transmission, and other features remain unaffected.

For example, a transmitter can be custom-built that

- Turns ON at 100 psi
- Latches ON
- Delays for TWO days, then
- Transmits in CONSTANT ON mode



**CD42-T4A  
+ CD42T4-SWX  
= THE WORLD'S SMALLEST  
PRESSURE-ACTIVATION TRANSMITTER**



\* A special variant of the T4, the CDI-T4A, is used with the T4-SWX system

**CDI**

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# CD42-SWX

## Pressure Activation Modules for use with CD42 Transmitters



### MODEL #

CD42-T4-SWX  
 CD42-T1A-SWX  
 CD42-T1AHP-SWX  
 CD42-T1AVHP-SWX

### USE WITH TRANSMITTER

CD42-T4A  
 CD42-T1A  
 CD42-T1AHP  
 CD42-T1AVHP

### ACTIVATION PRESSURE RANGE

15–1,100 psi (1–76 bar)  
 15–1,100 psi (1–76 bar)  
 15–3,000 psi (1–207 bar)  
 15–3,000 psi (1–207 bar)

### MAX TRANSMITTER PRESSURE

2,500 psi (172 bar)  
 2,500 psi (172 bar)  
 4,000 psi (276 bar)  
 7,500 psi (517 bar)

### OPERATIONAL SPECIFICATIONS

Operational Principle: Hydraulic Pressure  
 Pig Type: Any  
 Installation Method: Hand-tightened or Flange-bolted to existing transmitter

### OPTIONS

Flange Kit for High-Pressure Operation

### PRESSURE SENSING DETAIL

Sensor Type: Sub-Miniature Pressure Switch  
 Construction: 316 Stainless Steel  
 Repeatability: 3% of Activation Pressure  
 Proof Pressure: 6,000 psi (414 bar)  
 Burst Pressure: 9,000 psi (600 bar)  
 Temperature Range: 0°–110°C (32°–230°F)  
 Temperature Range (optional): -40°–110°C (-40°–230°F)



**FLANGE KITS AVAILABLE TO ADAPT T1A, T1AHP, AND T4A TRANSMITTERS FOR HIGH-PRESSURE OPERATIONS**



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