

CDI

CD42-SWX

PRESSURE ACTIVATION MODULES
FOR USE WITH CD42 FAMILY TRANSMITTERS



CD42-SWX PRESSURE ACTIVATION MODULES

PRESSURE SWITCHING

Often pipeline pigging is scheduled weeks, months or a full season in advance. Pressure activation modules for CDI's transmitters allow them to be turned on when they're needed – when the pigs start moving – and not before. Battery consumption prior to pressure activation is zero, so CDI's transmitters will be there when you need them.

PICK YOUR PRESSURE

CD42-SWX pressure activation modules are calibrated at CDI to turn the transmitter on at the pipeline pressure the customer specifies. 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

The ON activation of the transmitter may be either latching or non-latching as the customer desires by simply flipping a small internal switch. Latching behavior causes the transmitter to turn ON and remain ON once the activation pressure is reached the first time. Non-Latching behavior causes the transmitter's ON state to follow pipeline pressure: the transmitter will turn ON when the pressure is above the set-point and turn OFF when it falls below the set-point.

RETROFITTABLE

The CD42-SWX pressure activation modules are a retrofittable enhancement to CDI's most popular transmitters. Customers who already

own one of our popular CD42-T1A stainless steel transmitters can add pressure activation as simply as removing the cap and replacing it with a CD42-SWX module. Once the tracking work is finished the transmitter can be returned to standard behavior by simply swapping back to the default screw-cap.

COMPLEX BEHAVIORS

Because the CD42-SWX may be added to any of CDI's most popular transmitters, the resulting transmitter can retain its already powerful programmability while adding the ability to turn ON at a given pressure. Delay-ON times, custom pulse patterns, constant-ON transmission, etc. are unaffected by the addition of the CD42-SWX.

As just one example, the operator has the ability to build a transmitter which turns on at 100 PSI, latches ON, delays for two days and then begins transmitting in constant-ON mode.

At A Glance

- Enables CDI's most popular transmitters to turn ON at a given pressure
- May Latch ON at pressure activation or not
- Retrofits onto transmitters providing enhancement to existing equipment
- Zero battery consumption prior to activation
- Can build complex behaviors as necessary



CD42-T4 with pressure activation kit.
The smallest pressure activated transmitter in the world.

CD42-SWX PRODUCT SPECIFICATIONS

OPERATIONAL SPECIFICATIONS

Principle of operation	Hydraulic Pressure
Type of pig	Any
Method of Installation	Hand-tightened or flange bolted to existing transmitter

PRESSURE SENSING DETAIL

Sensor Type	Sub-Miniature Pressure Switch constructed of 316 stainless steel
Activation Pressure	15 – 3,000 PSI [1 – 207 bar]
Repeatability	3% of Activation Pressure
Proof Pressure	6,000 PSI [414 bar]
Burst Pressure	9,000 PSI [600 bar]
Temperature Range	0°C to +110°C -40°C to +110°C Optional



Pressure activated CD42-T4
shown with optional flange kit

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