



IMPORTANT

This *Field Guide* topic (/AL option) is not available for transmitters with /KS2, /KU2, /FS1, /FU1, /CS1 or /SU2 approvals; Fieldbus communication (-F); or Amplifier Housing code '2'.

This unique feature is the only one of its kind available on a two-wire pressure transmitter today. The EJX with the /AL option uses an open collector transistor output to provide an on/off signal for high and low alarms. The alarm types and values are user-configurable using HART digital communications. The status output can be assigned as any combination of high or low limits of the output, input static pressure, or transmitter capsule temperature.

The alarm feature employs a 5% (5 deg C for temperature) Hysteresis value to avoid output chattering.

(See *Figure 1*)

Uses for the alarm (Alert):

- ✓ **Tank Level** – Eliminates a level switch or redundancy
- ✓ **Capsule Temperature** – Remote location health monitoring (adjacent equipment, heat tracing, or process runaway)
- ✓ **Static Pressure** – Monitor pumps, valves, or tank blanket
- ✓ **Flow Limits** – Alarm at low or high flow conditions
- ✓ **Diagnostics** – Monitor other process conditions without the need and expense of additional devices.

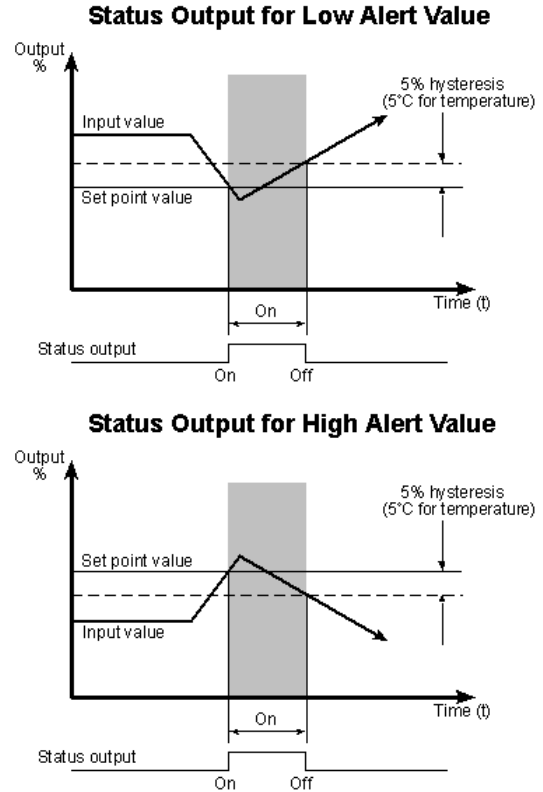


Figure 1

Section 1 Programming

Programming is easy using your HART Communicator.

(See *Figure 2*)



IMPORTANT

No status output signal has been defined for a CPU failure or hardware error. Use a 4 – 20 mA signal to indicate a transmitter’s failure.

Section 2 Specifications

Output type: Transistor output (sink type)

Contact Type: 10.5 to 30.0 VDC
120 mA DC (MAX)

Low Level: 0 to 2 VDC



IMPORTANT

Check / External indicator terminals cannot be used when this option is specified.

Section 3 Settings when shipped

The /AL option is ‘off’ when shipped from the factory.

Example: Set the status output to output an off signal when the input pressure exceeds 75 kPa with the alert mode of Hi. Al Detect.

1. Device setup
↓
4. Detailed setup
↓
3. Output condition
↓
4. Process Alerts
↓
7. DO Config
↓
2. DO Select and 3. DO Signal type

1

```

EJX:
DO Select
Pres
Off
Pres
SP
Temp
    
```

↓ (ENTER)
F4 (ENTER)

Select **Pres**, and press **ENTER (F4)**.

2

```

EJX:
DO Config
1 Digital Output Off
2 DO Select Pres
3 DO Signal type
4 DO Test
    
```

HELP SEND HOME

↓ (SEND)

Press **SEND (F2)** to send the data to the transmitter, then check to confirm that **SEND** disappears.

3

```

EJX:
DO Signal type
ON WHEN AL. DETECT
OFF WHEN AL. DETECT
    
```

↓ (ENTER)
F4 (ENTER)

Select **OFF WHEN AL. DETECT**, and press **ENTER (F4)**.

4

```

EJX:
DO Config
1 Digital Output Off
2 DO Select Pres
3 DO Signal type
4 DO Test
    
```

HELP SEND HOME

↓ (SEND)

Press **SEND (F2)** to send the data to the transmitter, then check to confirm that **SEND** disappears.

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Figure 2