
PRESSURE AND DIFFERENTIAL PRESSURE TRANSMITTERS



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The DRS Consolidated Controls Pressure and Differential Pressure Transmitters are qualified for Class 1E safety related nuclear applications. The basic design is that of a Bellows/LVDT construction which DRS Consolidated Controls has over 50 years experience with units delivering reliable service in nuclear applications. DRS Consolidated Controls manufactures a broad line of transmitters and sensors to monitor pressure, flow, level, temperature, speed and position for severe environment applications.

COMMERCIAL SENSORS AND TRANSMITTERS

DRS-CCI has a long history of providing Instrumentation and Control equipment for numerous applications. DRS-CCI has designed, qualified and manufactured components and systems for some of the most critical control applications around the world. DRS-CCI sensors and transmitters are designed and qualified to operate in extremely adverse environmental conditions encountered in both primary and secondary plant applications.

DRS-CCI sensors and transmitters are highly accurate and will operate continuously for decades in critical applications. Longer life corresponds directly to lower overall operating costs through the elimination or reduction of periodic transmitter replacement due to high temperature or radiation degradation over the life of the plant.

HIGHLIGHTS

- **Qualified for Class 1E safety related applications**
- **Custom application-specific models to suit the harshest needs**
- **Replace legacy transmitters that are no longer available**
- **Design into Advanced Reactor Applications to yield unmatched performance that can't be satisfied with currently available transmitters**
- **Over 50 years of experience producing extremely rugged units for pressure, differential pressure, position, and temperature**

PRESSURE AND DIFFERENTIAL PRESSURE TRANSMITTERS

PERFORMANCE

Ranges	From 0 to 64 in-H2O to 0 to 2500 psig
Accuracy	0.50% of calibrated span
Temperature effect	0.75%
Ambient temperature limits	+40°F to +200°F (+4°C to +93°C)
Humidity	0 to 100% relative humidity
Overpressure effect	0.3% of span after max working pressure
Thermal aging	245° F for 107 days
Radiation	110 Mrads gamma TID
DBE	Peak temp. +546°F (+286°C) Peak pressure + 99 PS16
Seismic	5.5g ZPA
Shock Impact	>100g's (capable)

CONSTRUCTION

All stainless steel construction pressure boundary and electrical enclosure

Pressure welded boundary (No elastomer seals to leak)

Proven bellows/LVDT construction needs **No Fill Fluid** (No need for elaborate drift monitoring to know when fill fluid will leak)

Accepts standard 5 Valve Manifold (Differential Pressure Transmitter) For outside containment applications.

Process connections: 1/4 NPT Std (accepts std swage fittings) or others via standard adapters

OUTPUT

4 to 20 mA dc

Remote circuit available

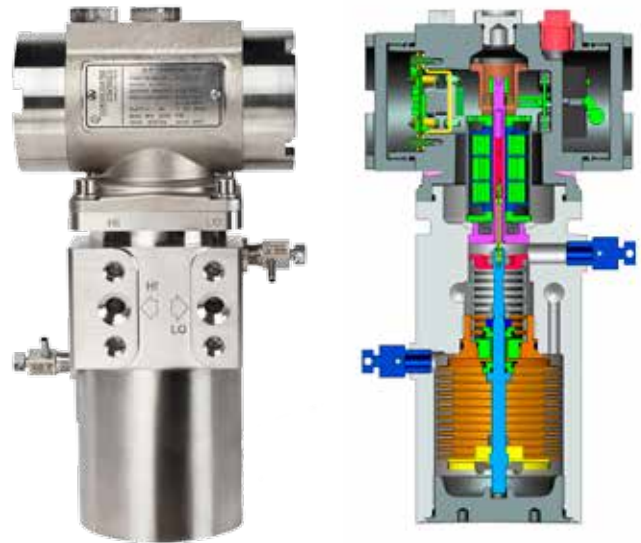
For more severe applications: higher DBE capability +600°F (+315°C) steam capable, longer life, reduced maintenance, remote 4 to 20 mA signal conversion capable up to 300 ft (91 m) away

DIFFERENTIAL PRESSURE TRANSMITTERS

Part Number	Range	Units
41C38-01	0-60	in-H2O
41C38-02	0-150	in-H2O
41C38-03	0-200	in-H2O
41C38-04	0-300	in-H2O
41C38-05	0-400	in-H2O
41C38-06	0-650	in-H2O
41C38-07	0-1100	in-H2O
41C38-08	0-1400	in-H2O
41C38-09	0-100	psid
41C38-10	0-220	psid

PRESSURE TRANSMITTERS

Part Number	Range	Units
41C39-01	0-1300	psig
41C39-02	0-2500	psig
41C39-03	0-3300	psig



Specifications subject to change without notice.

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