

KD41 CANbus Pressure Transducer

FEATURES

- Optional Controller Area Network (CAN) communication protocols available:
 - CANopen® 2.0A
 - CANopen® 2.0B
 - CAN SAE® J1939
- Ranges 5 to 20,000 psi
- Media temperature range -40 °C to 125 °C
- Compact and robust stainless steel design
- Wide selection of process and electrical connections available

TYPICAL USES

- Hydraulics
- Pneumatics
- Plant engineering and automation
- Automotive
- Environmental engineering
- HVAC
- Agricultural



KD41
Pressure Transducer



SPECIFICATIONS

Accuracy @ RT:	±0.50% of span, ±0.25% (OPT.) Including nonlinearity, hysteresis, repeatability, zero-offset and final-offset (according to IEC 61298-2)
Stability:	0.10% of span per year
Total Error:	2.0% of span -40 °F to 221 °F (-40 °C to 105 °C) Optional higher accuracy available (consult factory)
Environmental:	Vibration: 20 g (Per DIN EN 60068-2-6 - Sinusoidal) Shock: 50 g (Per DIN EN 60068-2-27 - Resistance)

ELECTRICAL SPECIFICATIONS

Supply voltage:	9...32 Vdc
Supply Current:	< 30 mA
CAN Interface:	DIN ISO 11898 CAN 2.0A or CAN 2.0B (OPT.)
CAN Protocol:	CANopen® or SAE® J1939
Response Time (10...90%):	< 1 ms
Withstand Voltage:	350 Vdc
Approvals:	CE/UKCA - conformity, EC directive 89/336/EWG

PHYSICAL SPECIFICATIONS

Housing:	Stainless steel
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ENVIRONMENTAL SPECIFICATIONS

Ingress Rating:	IP67 (IP69K option)
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MIN./MAX. TEMPERATURE LIMITS

Ambient	-40 °F to 221 °F (-40 °C to 105 °C)
Media	-40 °F to 257 °F (-40 °C to 125 °C)
Storage	-40 °F to 257 °F (-40 °C to 125 °C)
Compensated	-40 °F to 221 °F (-40 °C to 105 °C)

WETTED COMPONENTS

304 SS/17-4 PH® or all 316L SS (Range dependent)

KD41 CANbus Pressure Transducer

ORDERING CODE	Example:	KD41	5	MEK	CJ	EW	7500#	G	-#XXXX
Function									
KD41 - KD41 Pressure Transducer with CANbus protocols		KD41							
Accuracy									
5 - ±0.5% of span			5						
3 - ±0.25% of span (optional)									
Pressure Connection									
M02 - ¼ NPT - Male									
MEK - 7/16-20 SAE® #4 - Male w/Buna N O-ring				MEK					
MEV - 9/16-18 SAE® #6 - Male w/Buna-N O-ring									
MGA - G ¼ A, Form E - Male									
Output Signal									
CN - CANopen®									
CJ - SAE® J1939					CJ				
Electrical Connections									
M12 - Mates to Hirschmann® 933 172-100 or similar									
EW - No Mating Connector						EW			
E0 - with Mating Connector, No cable									
E2 - with mating connector, 3 feet of shielded cable									
E1 - with mating connector with customer specified cable length									
Pigtail - Shielded Cable									
F2 - with 3 feet of cable									
F3 - with 10 feet of cable									
P1 - Customer specified cable length									
Pressure ranges (see range table on page 3 for more ranges)									
7500# - 7,500 psi							7500#		
Measurement Type									
G - Gauge								G	
Variation (required)									
#XXXX - Customer specified parameters									#XXXX

