# CONTROLS (UK) LTD



Fine Controls have been supplying process controls & instrumentation equipment since 1994, & now serves an ever expanding customer base, both in the UK & globally.

We offer a full range of valve & instrumentation products & services, with our product rangerepresenting leading technologies & brands:

**Flow:** Flow Meters & Transmitters, Flow Switches, Flow Control Valves & Batch Control Systems

**Temperature:** Temperature Probes & Thermowells, Temperature ransmitters, Temperature Regulators & Temperature Displays

Level: Level Transmitters & Switches

**Pressure:** Pressure Gauges & Transmitters, Precision & High Pressure Regulators & I-P Converters, Volume boosters.

**Precision Pneumatics:** Pressure Regulators, I-P Converters, Volume Boosters, Vacuum Regulators

**Valves:** Solenoid & Pneumatic Valves, Control Valves & Positioners, Actuated Ball, Globe or Diaphragm Valves & Isolation Valves

**Services:** Repair, Calibration, Panel Build, System Design & Commissioning





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## Honeywell











Fine Controls (UK) LTD, Bassendale Road, Croft Business Park, Bromborough, Wirral, CH62 3QL UK
Tel: 0151 343 9966
Email: sales@finecontrols.com



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### **Pressure Transmitter**

- Ceramic/thick film measurement cell
- Two-wire version for 4... 20 mA output
- Compact, stable construction for the highest operational reliability

Type 8316 can be combined with...





**Type 8611**Universal Controller eControl

Type 8802-GD

Continuous SideControl system

The compact Type 8316 pressure transmitter meets the highest requirements with regard to mechanical loading, EMC characteristics and operational reliability and is particularly suitable for demanding industrial applications. For aggressive fluids against stainless steel the process connection in PVDF is available.





PLC

Type 8619

Multifunction transmitter/controller

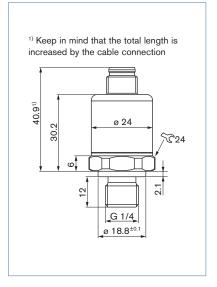
General data					
	<b>1.</b>				
Body material	Stainless steel 1.4404 (316L)				
Wetted parts materials	Ceramics (Al <sub>2</sub> O <sub>3</sub> ), stainless steel 1.4404, FKM seal (for pressure 0 - 100 bar, only stainless steel 1.4404, no FKM seal, no ceramics)				
Electrical connection	Round male connector M12x1				
Process connection	G 1/4" external to DIN 3852 Form E NPT 1/4" external				
Installation	As required, preferably with pressure connection in downward position				
Measurement technology	Ceramic or thick film				
Measurement procedure	Relative pressure measurement				
Measuring range	0 to 1, 4, 6, 10, 16, 40 or 100 bar (0 to 14.51, 58.04, 87.06, 145.1, 232.16, 580.4, 1451 PSI)				
Overload, bursting pressure	3 x full scale at 0 4 bar (0 58.04 PSI)				
	2.5 x full scale at 6 100 bar (87.06 1451 PSI)				
Fluid temperature	-15 to +125°C (5 to 257°F)				
Accuracy	Sum of linearity, hysteresis and reproductibility, balancing accuracy of zero point and full scale:  ≤ 0.5% of F.S.*				
Resolution	0.1% of F.S.				
Dynamic response	Suitable for static and dynamic measurements response time < 2 ms, typ. 1 ms				

<sup>\*</sup> F.S. = full scale



Electrical data					
Operating voltage (U)	7 to 33 V DC, unregulated				
Output signal	Standard 4 20 mA (two-wire) or 0 10 V DC (three-wire) signal				
Load in $\Omega$	< (U - 7 V) / 0.02 A				
Protected connection	Short-circuit proof & protected against reverse polarity				
Environment					
Ambient temperature	-15 to + 85°C (5 to 185 °F)				
Temperature coefficient	< 0.2% of F.S.* / 10K				
Standard and approvals					
Protection class	IP67				
EMC	EN 61326-2-3				
Approval	CE; UL-Recognized for US and Canada (UL61010-1 + CAN/CSA-C22 No.61010-1)				
Test/Admissions					
Shock acc. EN 60068-2-27	25g, 6 ms half sine wave, all three directions.				
Drop test acc. EN 60068-2-23	from 1 m on concrete				
Vibration acc. EN 60770-1	50m/s, 10 1000 Hz, 1 Octave/min, 20 constant load per axis				

### Dimensions [mm]



### Ordering chart for pressure transmitter Type 8316

Process	Pressure range	Operating voltage	Output signal	Electrical	Item no.
G 1/4" UL-Recognized for US and Canada ₀ <b>™</b> is	0 - 1.00 bar	7 33 V DC	4 20 mA	M12 male connector	563 777
	0 - 4.00 bar	7 33 V DC	4 20 mA	M12 male connector	563 778
	0 - 6.00 bar	7 33 V DC	4 20 mA	M12 male connector	563 779
	0 - 10.0 bar	7 33 V DC	4 20 mA	M12 male connector	563 780
			0 10 V DC	M12 male connector	563 784
	0 - 16.0 bar	7 33 V DC	4 20 mA	M12 male connector	563 781
	0 - 40.0 bar	7 33 V DC	4 20 mA	M12 male connector	563 782
	0 - 100.0 bar	7 33 V DC	4 20 mA	M12 male connector	563 783
NPT 1/4" UL-Recognized for US and Canada	0 - 60 PSI	7 33 V DC	4 20 mA	M12 male connector	564 466
	0 - 150 PSI	7 33 V DC	4 20 mA	M12 male connector	564 467
	0 - 300 PSI	7 33 V DC	4 20 mA	M12 male connector	564 468

### Further versions on request

Pressure

other measuring ranges

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Port connection NPT 1/4", ...

Electrical connection connectors: mini DIN, DIN ...

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Additional electrical outputs: 0 - 10 V DC, 0 - 5 V DC

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Materials

EPDM seal, PVDF process connection

### Ordering chart accessories

Description	Item no.	
5-pin M12 female cable connector with plastic threaded locking ring	917 116	
5-pin M12 female connector moulded on cable (2 m, shielded)	438 680	

\*To find your nearest Bürkert office, click on the orange box  $\rightarrow$ 

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In case of special application conditions, please consult for advice.

Subject to alteration.
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