

MJK Expert™ 2100
Level Transmitter



MJK Expert™ 2100 Level Transmitter is a very robust and useful all-round transmitter. It is one of the most used in MJK's transmitter program.

The transmitter is equipped with a piezo-resistive measuring system with high precision and direct air pressure compensation through a vent tube in the cable.

Expert™ 2100 is ideal for measuring levels in storage tanks, wet wells and pump stations in both water and wastewater plants.

Specifications

MJK Expert™ 2100 Hydrostatic Level Transmitter				
Nominal measuring range (ftWG)	0 - 10 ft.	0 - 15 ft.	0 - 30 ft.	0 - 100 ft.
Measuring principle	Piezoresistive			
Min. programmable range	0 - 6 ft.	0 - 6 ft.	0 - 6 ft.	0 - 30 ft.
Max. programmable range	0 - 36 ft.	0 - 36 ft.	0 - 36 ft.	0 - 200 ft. ②
Non-standard range	Min. 0 - 6 ft. / Max. 0 - 900 ft.			
Max. overpressure	3.5 bar / 50 psi	3.5 bar / 50 psi	3.5 bar / 50 psi	10 bar / 150 psi
Temperature range	15 to 150 °F			
Temperature deviation, zero point	Better than ± 0.01 % / °F			
Temperature deviation, full range	Better than ± 0.008 % / °F			
Linearity / Stability	Better than ± 0.5 % FS / ± 0.1 % FS			
Measurement accuracy	Better than ± 0.25 % FS @ 50 to 85 °F Better than ± 0.5 % FS @ full temperature range			
Long time stability	Better than ± 0.5 % FS per year			
Materials	Housing: PP / Diaphragm: Stainless steel (AISI 316 L)			
Supply voltage	10 - 30 V DC (12 - 30 V DC for cable lengths above 315 ft.)			
Output signal	2-wire 4 - 20 mA (passive transmitter)			
Cable	2 × AWG 20 (pressure) + 5 × AWG 25 (data), shielded, PUR insulation			
Cable length ①	39 ft.	39 ft.	39 ft.	115 ft.
Enclosure	NEMA 6P, withstands a static pressure equal to max. overpressure			
Approvals	EN61000-6-3/-4:2001, EN61000-6-1/-2:1999			
① Can be delivered with other cable lengths on request. ② Can be delivered with up to 900 ft.				

Order Numbers

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209930	Expert™ 2100, range 0 - 10 ft. WG	220291	Expert™ 2100 in special materials
209935	Expert™ 2100, range 0 - 30 ft. WG	202925	Expert™ 2100 w/ special meas.range
209940	Expert™ 2100, range 0 - 100 ft. WG		

Dimensions and
Accessories

