



SUBMERSIBLE TRANSMITTERS

SERIES 46 R

FOR WATER LEVEL MEASUREMENTS

This submersible water level transmitter is notable for its excellent long term stability, rugged build and a low cost, value engineered design. The KAVLICO low pressure capsule measures the pressure generated by the head of water above it very accurately, and is enclosed in a sealed brass housing with a clamped cable entry at the rear. A clamp ring terminates the cable screen to the brass housing and the signal wires are moulded into the body, acting as a secondary hydraulic seal.

This brass housing is mounted in a second waterproof plastic housing. The measuring cell and the cable are sealed with secondary O-rings. The pressure media is therefore only in contact with the plastic housing - which can be selected to suit special applications - and the goldplated ceramic diaphragm.

The cable is also double sealed. The first sheath seals the conductor wires and the reference tube, which are then mechanically protected by a heavy-duty braid and covered by a thick polyurethane sheath.

Level transmitters can be subject to internal condensation caused by installations in cold water on warm, humid days. If the reference tube is not terminated in a warm, dry enclosure, KELLER recommends the use of a purpose built cartridge filled with a silica gel which is fitted at the end of the reference tube.



SPECIFICATIONS

Version PR-46 R, Gauge Overpressure	Pressure Ranges (FS) in metres W.G.			
	0,5	1	2	4
	10 x FS			
Signal version: type	2 wire			
Excitation	8...28 V			
Signal Output	4...20 mA			
Linearity	0,2% FS typ.		0,5%FS max.	
Hysteresis and Repeatability	≤0,03% FS			
Stability	0,1% FS typ.			
Operating Temp. Range	-20...80°C			
Compensated Temp. Range	0...50°C			
- Temp. Coeff. of Zero	0,02% FS/°C typ.		0,03% FS/°C max.	
- Temp. Coeff. of Sensitivity	0,02%/°C typ.		0,03%/°C max.	
Cable / Cable Length	∅ 9 mm, PVC, integrated ref. tube / 5 meter standard			
Material	• Housing: PP		• Diaphragm: goldplated Ceramic	
	• O-Ring: Viton®			
Weight	≈ 350 gramme			
Options	PE-Cable			

