

## MINIATURISATION OF PRESSURE TRANSMITTERS MADE POSSIBLE BY CHIP-IN-OIL TECHNOLOGY



With the Chip-in-Oil technology developed at Keller, miniaturisation of OEM pressure transmitters is now made possible. Apart from an extremely compact design, the devices also offer impressive advantages in high resistance to electrical noise fields of 250 V/m and high frequency resistance of up to 4GHz.

The Series 4 LC... 9 LC with housings starting at a diameter of 11 mm, is an embedded system where the entire transmitter electronics in the transducer housing are hermetically embedded in oil and all the key pressure measurement components are protected against the risks from humidity and condensation.

These OEM transmitter capsules themselves are ideal for integration in higher-order systems due to the selected analogue and digital output signals. The ratiometric signal eliminates the need for an expensive voltage reference in the support electronics to the A/D converter. The CiO pressure transmitters are designed for 5 V applications, and also provide constant protection against overvoltage and polarity reversal on all lines up to  $\pm 33$  VDC.

With an analogue output, the Series 4 LC...9 LC is characterized by having a fully integrated compensation and signal standardization over the entire temperatures range from  $-40$  °C up to  $150$  °C. The full scale pressure ranges extend from 1 bar up to 1000 bar.

The Keller product range is exclusive to instrumentation specialist, Instrotech, a Comtest Group Company.

Released for: **INSTROTECH (PTY) LTD, A COMTEST GROUP COMPANY**

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