SensorsONE
Pressure Measurement Instrumentation

LevCal

Submersible Hydrostatic Liquid Level Sensor Calibration Kit

The kit supplied includes the following items in the table immediately below :
The Calibrators as supplied have a process connection of 1/8" NPT female. Best results however are obtained using short length 1/8" BSP male fitting with Dowty seal screwed into the female NPT connector.

Basic Kit

Item	Description	Quantity
0	2 bar Portable Calibrator with integral pump, PCL819-30, 330-30, CPH6600	1
1	1/8 BSP Dowty Seal D400 020 02	2
2	1/8 BSP Equal Connector A210-1/8 (Short one end)	1
3	1/8 BSP Female Thread Nipple CEJN 220 C102205201	1
4	1/8 BSP Male Blanking Plug A320-1/8 + 1/8 BSP Dowty Seal D400 020 02	1
5	1 metre Hose Assembly A-901	1
6	Test Stop End, ¼ BSP Blanking Plug A320-1/4 + ¼ BSP Dowty Seal D00-021-04, fitted to CEJN220 Coupling C102201202	1
7	Roll PTFE Tape	1

Optional Adaptors

Impress S12C, S12S, IMSL IMPT Series Devices

Item	Description	Quantity
8	This assembly comprises three parts, ¼ BSP Female Nipple with "O" ring Z5350-1/4 + Quick Connect Coupling, G 1/4 Male Threaded Z5051-1/4 + CEJN220 Coupling C102201202	1

Gems 9500, 9600 Series

Item	Description	Quantity
9	This assembly comprises two parts, M16 to G ¼ Internal with "O" ring 562784-00 + CEJN220 Coupling C102201202	1

Druck PTX 1830 Series

Item	Description	Quantity
10	This assembly comprises three parts, G1/8 Adaptor,DA2537-1-01 + ¼ Dowty Seal D00-021-04 + CEJN220 Coupling C102201201	1

Endress + Hauser Water Pilot, FMX167/FMX21

Item	Description	Quantity
11	This assembly comprises two parts, Test Adaptor 52011868 + Sealing Ring + CEJN220 Coupling C102201151	1

OTT RLS

Item	Description	Quantity
12	This assembly comprises two parts, Test Adaptor 52011868 + Sealing Ring CEJN220 Coupling C102201151	1

BD/IMPRESS LMP305

Item	Description	Quantity
12a	Test Adaptor details to follow CEJN220 Coupling C102201151	1

Optional Tools

Item	Description	Quantity
13	Draper single end 5894 Series Spanner 13mm, 37524	1
14	Draper single end 5894 Series Spanner 14mm, 37525	1

Optional Fittings

15	Druck PTX 630 Series Adaptor	1
16	1/8th NPT Blanking Plug W587/01	1
17	1/8th NPT to 1/8th BSP Adaptor Z2520-021/8	1
18	1/8th BSP to 1/8th BSP Right Angle Adaptor A520-1/8 For Druck Testers	1

Setting to Work

1. To prove the basic unit is working and there are no leaks, take item 4 and carefully screw into the female process connection on the Pressure Tester. Nip up the stop end using item 14, the 14mm Spanner.
Switch the unit on and using the pump set to 20mH20 (30 psi), then watch the display, after a short time interval the display should settle and the value displayed should remain constant. If it drops off then ensure that the stop end is tight in the fitting. Assuming a steady reading is obtained proceed to the next stage.

2. Switch off the unit , then remove the stop end and substitute with the equal connector item 2 together with item 1 x 2 off Dowty Seals. Tighten in place using item 14 the 14mm Spanner.

3. To the open end of item 2 add item 3, the female nipple. Tighten in place using item 13, the 13mm Spanner.

4. To the Quick Release Nipple now add item 6 the Stop end with Coupling. Switch the unit on and using the pump set to 2 Bar, then watch the display, after a short time interval the display should settle and the value displayed should remain constant. If it drops off then ensure that items 2 and 3 are tight as an overall "kit". Assuming a steady reading is obtained proceed to the next stage.

5. Using the pressure relief valve on the side of the unit or merely remove the stop end to de-pressurise the unit. Taking the Hose Assembly item 5 connect to the Quick Release nipple. On the remote end of the hose add the stop end item 6, and using the pump set to 20mH20 (30 psi), then watch the display,

after a short time interval the display should settle and the value displayed should remain constant. Assuming a steady reading is obtained the Adaptor kit for the item to be tested can be attached after removing the stop end.

6. The Maxi Carry Case has been designed to accommodate the output fittings stated on the CPH6600 or the PCL819-30 so that once finally fitted, they can be left in place.

7. When using the unit it is essential that the Hose Assembly is used to connect to the chosen adaptor as this provides equalisation when applying pressure with the Pump..

8. Devices under test should not be directly connected to the unit output nipple as errors will occur.