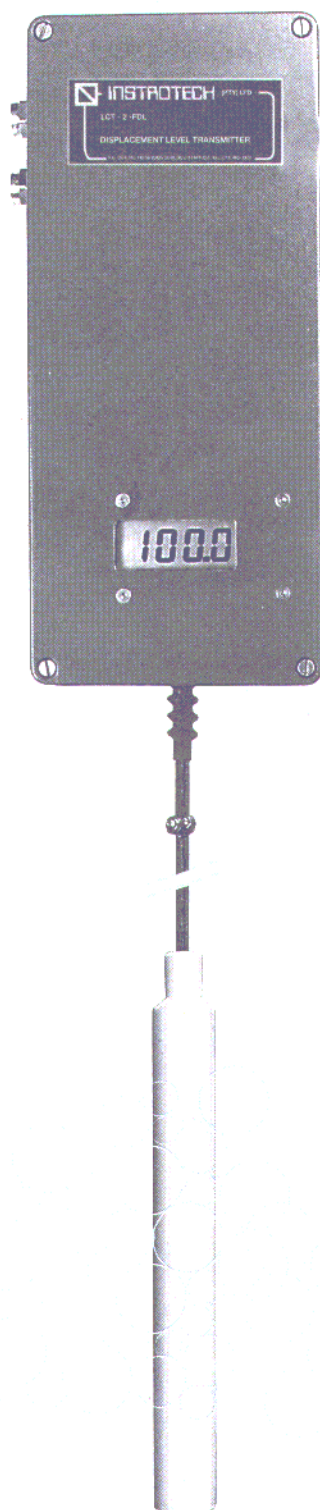


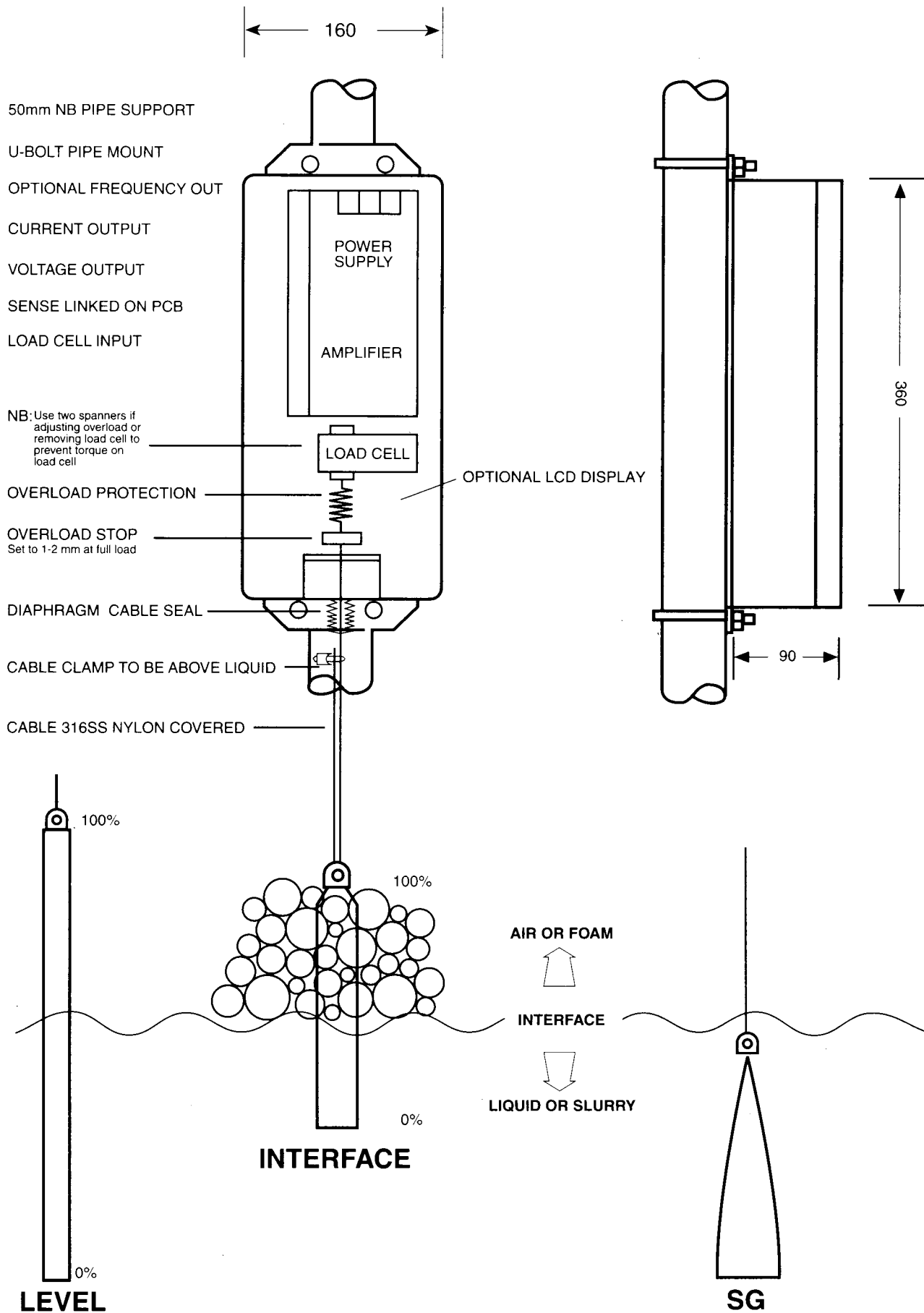
DISPLACEMENT LEVEL TRANSMITTER LCT-2-FDL



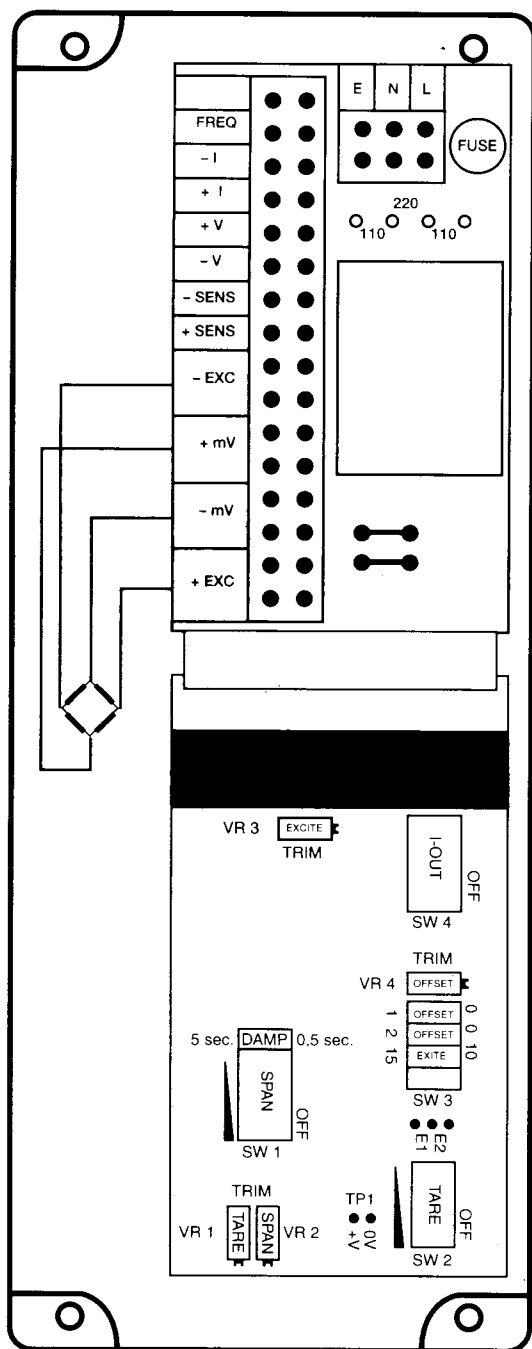
The LCT-2-FDL has proved itself as a reliable low-maintenance transmitter for level, interface and SG measurement of liquids and slurries.

Applications include flotation level in mining, oil / water interface on rolling-mill sumps and density measurement in settlers.

An optional LCD local indicator is available.



CONNECTIONS AND CALIBRATION



LOADCELL IS FACTORY WIRED

CONNECTIONS (with POWER OFF)

1. Check links for 110/220 V AC.
2. Check that the excitation and sense links are linked on the power supply board.

Note that the mV signal is connected with reverse polarity.

CALIBRATION

1. Set SW-4 for 1–5 V and 4–20 mA outputs.

1	2	3	4	5	6	7	8
OFF	ON	OFF	ON	OFF	ON	ON	OFF

2. Set SW-3 for 1 V offset.

1	2	3	4
		OFF	ON

3. Check that E1/E2 link is set to E2 for reverse tare (factory set).

5. Set SW1/10 to ON for 5 second damping.

4. Set SW-2 for 15 V excitation.

1	2	3	4
	ON	OFF	ON

POWER ON

6. Trim excitation to 15 V DC on VR 3.
7. With displacer in air set TP1 to 0 V using TARE SW-2 and VR 1 for trim.
8. Adjust Current out to 4 mA using VR 4 offset trim.
9. Immerse displacer fully in the liquid or slurry and set Span switch SW 1–9 and VR 2 for 20 mA trim.

ELECTRONIC CALIBRATION

1. Excitation = 15 V DC
2. Loadcell rating = 2 mV / V
FS = 10 lb = 4,538 kg
FS = 15 x 2 = 30 mV
3. Range of : 2 kg – 0 kg
 : 2 kg = 13,227 mV
 : 0 kg = 0 mV
4. mV input from the loadcell is reversed.

5. Inject –13,227 mV and set to 0 V on TP1 (as in Steps 7 and 8 above).
6. Inject 0 mV and set to 20 mA (as in Step 9 above).

APPLICATION

LEVEL

Set zero by raising transmitter housing until displacer is in air. Set span by lowering housing until displacer is completely immersed. Set operating range by adjusting height until output corresponds to known level.

INTERFACE

Set zero with displacer in upper fluid.

Set span with displacer in lower fluid, then adjust height for correct operating range.

SPECIFIC GRAVITY

Set zero in liquid of lowest range S.G.

Set span in liquid of highest range S.G.

NOTE:

Clean water S.G. 1,0 may be used for operational tests.

HOUSING

Field mount : 360 x 160 x 90 mm

Material : Cast Aluminium

: Polyester Housing (optional)

Display : 3¹/₂ digit LCD display (optional)

GUARANTEE

This product is guaranteed against faulty workmanship or defective material, for a period of 3 (three) years from the date of delivery by INSTROTECH.

INSTROTECH undertakes to replace without charge all defective equipment which is returned to it (transportation costs prepaid) during the period of guarantee, provided there is no evidence that the equipment has been abused or mishandled in any way.

INSTROTECH reserves the right to alter any specifications without notice.

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