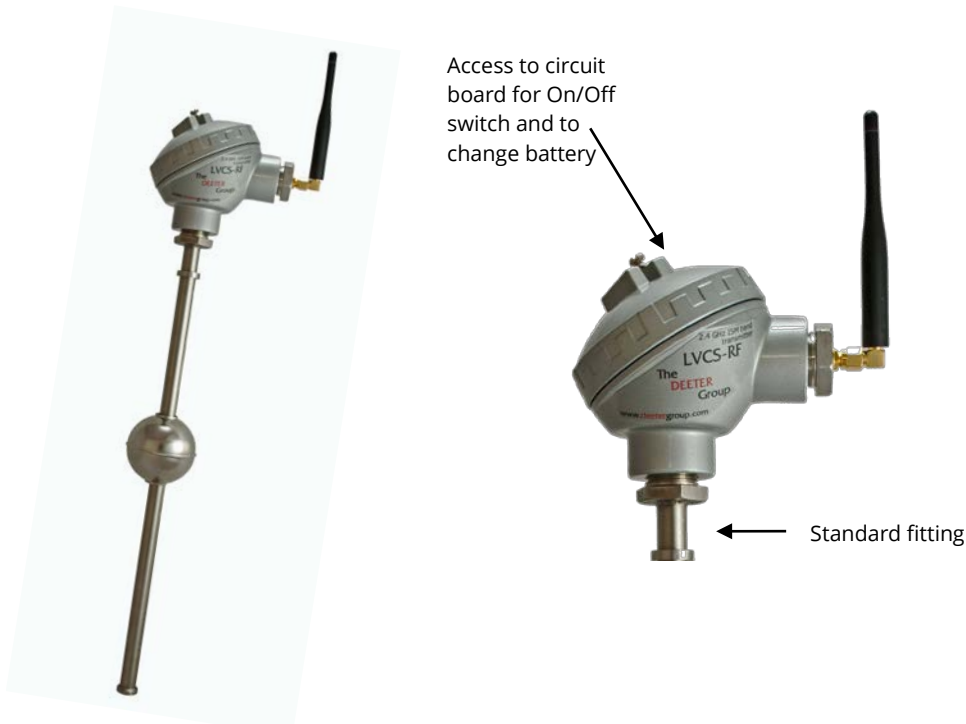


The DEETER Group®

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Wireless Sensor System

LVCS-RF



The LVCS-RF (Liquid Vertical Continuous Sensor - Radio Frequency) is designed to measure a continuous liquid level and transmit this information by radio to a Deeter Wireless Base Station at regular intervals.

The device is battery powered and wirelessly communicates in the 2.4GHz band using the internationally recognised IEEE802.15.4 protocol. Range can be more than 1km, subject to environmental factors, and greater distances can be attained with the use of a Deeter Wireless Router. A significant increase in the range can be achieved by using one or more Deeter Wireless Routers.

The simplest measurement system comprises an LVCS-RF sensor communicating to a Deeter Base Station connected to a 4-20mA current loop indicator such as a Deeter Current Loop Indicator (DCLI).

The LVCS-RF circuitry is housed in a die-cast Aluminium head with an external antenna. An optional 3m extension lead and bracket are available for mounting the antenna in a position more favourable to wireless communication.

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Wireless Sensor System

LVCS-RF

The sensor circuit is fitted inside a 316L stainless steel tube attached to the head, with a 53mm magnetic ball-float. Standard sensing lengths are 250mm, 500mm, 750mm and 1m. Custom lengths are available on request.

The LVCS-RF is powered by a single 3.6V Lithium Thionyl Chloride battery. Battery life is typically 9 months (based on a transmission interval of 10 seconds and an uninterrupted wireless link to the base station).

Specifications (LE01)

Antenna (External)	Fully weather-proof	FCC Part 15 Compliant	Yes
Antenna Extension Cable (Note 1)	3m length	Frequency Channels	16
Antenna Gain	2.2dBi	Operating Temperature	-20°C to 70°C
Antenna Type	Half-wave dipole	Process Inputs	Magnetic float switch with reed switch array
Battery	½ AA	Radio Frequency	2.4GHz ISM band
CE Mark	Yes	Receiver Sensitivity	-96dBm
Communications Protocol	IEEE 802.15.4	Standard Measurement Lengths (mm)	250, 500, 750, 1000
Head Dimensions (mm)	Height = 150 Width = 80 Depth = 120 Antenna Height = 96	Transmit Power (Note 2)	6dBm
Stem Dimensions (mm)	Height = 90mm + Sensing Length Diameter (float) = 55mm	Enclosure	IP64

Notes

- 1) Optional feature
- 2) Conforms to European ETSI Limits.

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Wireless Sensor System LVCS-RF

Ordering Information

Description	Measured Length	Inserted Length	Ordering Code
Wireless LVCS-RF1 LE02	250mm	340mm	DE012-0203
Wireless LVCS-RF2 LE02	500mm	590mm	DE012-0204
Wireless LVCS-RF3 LE02	750mm	840mm	DE012-0205
Wireless LVCS-RF4 LE02	1000mm	1090mm	DE012-0206
Antenna Extension Cable and mounting kit			DE012-0123

For custom lengths, contact the sales department

All electrical equipment should be installed by a qualified/certified electrician.

The Deeter Group follows a policy of continual development of its products and reserves the right to change specifications and/or features without notice.

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