

**Fixed Point, Remote
Capacitance Level Sensor
DIGISET - DSL4/REM**

The DSL4/REM level controller is for use with liquids, powders and granular solids. It is similar to the Digiset DSL.4 but has a separate electronic control card and remote probe for applications where vibration, temperature or space restriction prevent the use of a self contained version.

The DSL4/REM level controller provides high, low or intermediate level control of materials stored in silos, hoppers or other containers. It has a range of remote mounting probes designed specifically for applications which are subject to severe vibration or with materials subject to high temperatures.

It incorporates a "power shield" circuit which automatically

eliminates the effect of material sticking to the probe causing it to respond only to a true "probe covered" condition.

Calibration is by means of a simple digital system. It provides a quick and accurate setting up procedure on installation.

Operation is direct from 110/230 volts 50/60 Hz or 24 volts DC supplies. The output comprises a set of voltage free relay contacts. Fail-to-safety can be selected by a switch in either a high or low level mode.

The Digiset controller is mounted remotely from the probe unit with an interconnecting dual coaxial cable up to 3 metres in length.

- * **Power shield compensation**
- * **Simple digital calibration**
- * **Operation from both AC and DC supplies**
- * **Remote probes for applications subject to severe vibration or with high temperature materials up to 250°C**

SPECIFICATION

DIGISET DSL4/REM																	
SUPPLY	110/230 volts AC 50/60Hz or 24 volts DC -15% +10%.																
AMBIENT TEMPERATURE	-15°C+50°C.																
SENSITIVITY	0.5 picofarad.																
OUTPUT	1 set of voltage free relay change-over contacts rated at 3 amps 240 volts AC non-inductive.																
FAIL-to-SAFE	High or low level mode, selected by a switch.																
CALIBRATION	By 3 rotary, 10 position, digital switches.																
TIME DELAY	Adjustable 0-5 seconds.																
INDICATOR	LED probe covered (material detected) indicator.																
BUILD-UP COMPENSATION	Power shield automatic compensation for material build-up on the probe.																
CONSUMPTION	1.5VA ac. 40mA dc.																
PROBE CONNECTIONS	Probe may be up to 3 metres from control unit using triaxial cable.																
CABLE ENTRY	Cable glands fitted for probe and supply/output connections.																
ENCLOSURE	Polycarbonate.																
PROTECTION	IP65.																
FUSING	Supply should be fused at 5 amps max.																
WEIGHT	<table style="width: 100%; border: none;"> <tr> <td>DSL4/REM Unit</td> <td style="text-align: center;">900g.</td> <td>30cm rod</td> <td style="text-align: center;">250g.</td> </tr> <tr> <td>Remote Probe Head</td> <td style="text-align: center;">600g</td> <td>1 metre rod</td> <td style="text-align: center;">1.5Kg.</td> </tr> <tr> <td></td> <td></td> <td>2 metre rod</td> <td style="text-align: center;">3.0Kg.</td> </tr> <tr> <td></td> <td></td> <td>10 metre wire rope</td> <td style="text-align: center;">1.25Kg.</td> </tr> </table>	DSL4/REM Unit	900g.	30cm rod	250g.	Remote Probe Head	600g	1 metre rod	1.5Kg.			2 metre rod	3.0Kg.			10 metre wire rope	1.25Kg.
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HOW TO ORDER:-

Specify **DSL4/REM** plus **probe head** and **probe** from chart.

SPECIFICATION - Remote Probe Units

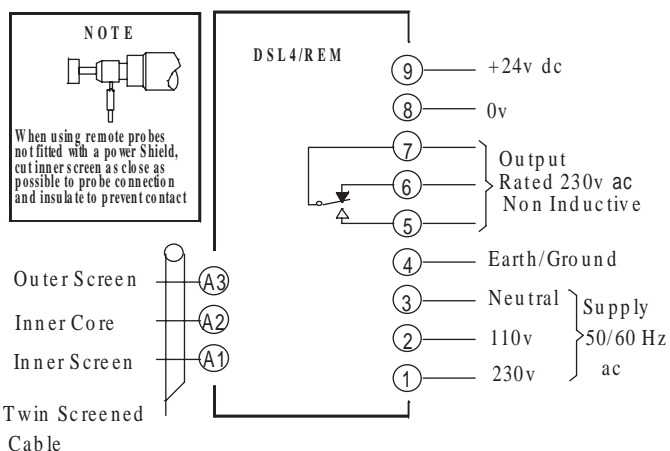
The following probes are available for use with the DSL4/REM controller.

POLYPROPYLENE and stainless steel with 3 metres triaxial screened coaxial cable fitted.
Operating temperature: -20 to +120°C.

PEEK and stainless steel with 3 metres triaxial cable fitted.
Operating temperature: -50 to +250°C.

Probe Description	Order Code
320mm Stainless Steel Rod	822-005
1 metre Stainless Steel Rod	822-003
2 metre Stainless Steel Rod	822-004
10 metre Stainless Steel Wire Rope	823-004

CONNECTIONS



Detection & Control
in action