

Designed for use with the Protimeter HygroTrac remote monitoring system, the Dual Probe Sensor (DPS) is an alternative to the standard sensors that are used for general humidity, temperature and moisture level (% WME) monitoring applications in buildings. The DPS works with Protimeter Hygrostick or Protimeter QuikStick probes, for more specialized equilibrium relative humidity (ERH) and temperature monitoring applications.

**IMPORTANT:** *DPS users should already be familiar with creating a Protimeter HygroTrac account, setting up user sites and allocating HygroTrac Gateways to sites. To become familiar with these procedures, please visit [www.gehygrotrac.com](http://www.gehygrotrac.com) and refer to the HygroTrac manual.*

**Table 1: Dual Probe Sensor Channels**

Connection	Probe Compatibility
Channel 1	For Protimeter Hygrostick or Protimeter QuikStick
Channel 2	For Protimeter Hygrostick or Protimeter QuikStick
WME jack socket	For Protimeter moisture probes
WME terminal block	For custom moisture probes

**Setting Up and Using the Dual Probe Sensor**

- Establish what measurements are to be monitored with each DPS and ensure you have the required probes and accessories to take these measurements. For example, to measure room RH and temperature, together with floor sub-surface ERH, would require the following probes and accessories:
  - x1 Dual Probe Sensor
  - x1 QuikStick
  - x1 Hygrostick
  - x1 Extension lead
  - x1 Humidity Sleeve
- Position the probes at the measurement points and connect to the Dual Probe Sensor, using extension leads if required.

- Note the location of the DPS and the probes that are being used. Write these details in the Description column of the Sensors page of the appropriate Site, as created within [www.gehygrotrac.com](http://www.gehygrotrac.com)
- Ensure the DPS is within range of an active Hygrotrac Gateway that is allocated to the Site and start monitoring.



**Figure 1: Channel One for Use with HygroStick and QuikStick only**



**Figure 2: WME (Wood Moisture Equivalent) Terminal Block for Custom Probes and WME Socket for Protimeter plug in Probes. Channel 2 Shown for QuikStick, HygroStick and Surface Temperature Probe.**

**Note:** *Only one WME port can be used concurrently.*



**Figure 3: Typical Use with Moisture Probe and QuikStick**



**Table 2: Probes and Accessories for use with the Dual Probe Sensor**

<b>Part No.</b>	<b>Description</b>	<b>Comment</b>
POL4750	Protimeter Hygrostick	Humidity and temperature probe, optimized for high humidity measurement. Ideal for sub-surface ERH measurement in solid walls and floors.
POL8750	Protimeter QuikStick	Humidity and temperature probe, optimized for full range humidity measurement and speed of response.
BLD5802	Extension lead	For connecting Hygrostick or QuikStick probes to the DPS (when impractical to connect directly). Nominal length 800 mm.
BLD4902	Humidity sleeves	Humidity Sleeves (original style: 43 mm length x 16 mm dia.) - pack of 20. Use with Hygrosticks for floor sub-surface ERH measurements
BLD4711	Humidity box	Use with Hygrosticks for floor surface ERH measurements.
BLD5060	Two pin moisture probe	For measuring % moisture content in timber and %WME in other non-conductive materials. Jack plug connector.
BLD5055	Hammer Electrode	For measuring % moisture content in wood floors timber and %WME in other non-conductive materials. Jack plug connector.
BLD5020/18	Deep Wall Probes	Pair of insulated brass rods of nominal length 220 mm for taking WME measurements at depth in walls and structures. Jack plug connector.
BLD5804	Surface Temperature Sensor	Same as version used in Protimeter MMS. Plugs into Channel 2 only.