No other soil moisture probe system enables you to monitor your soil water profiles with such ease and flexibility. Install an access tube into the soil, insert the PR2 Profile Probe and press the HH2 [Read] button to display an instantaneous reading, or connect the PR2 to a data logger (GP2, DL6 or DL2e) and leave the system to record soil moisture changes over time.

The PR2 soil moisture probe is built around patented sensing technology which provides unprecedented performance in all soil types, with minimal influence from either salinity or temperature. The PR2/4 model measures soil moisture at 4 depths down to 40 cm or the PR2/6 measures at 6 depths down to 100 cm.

The PR2 Profile Probe access tube requires an installation hole 27 mm in diameter, allowing easy installation and minimal soil disturbance. Access tubes are manufactured to strict tolerances and are exceptionally strong and durable in the soil. Correct installation is essential and we recommend the use of our specially designed augering equipment.

Dynamax augering kits help you achieve the best possible access tube installation in virtually any soil. Profile Probes are used in access tubes inserted into carefully pre-augered holes in the soil. Correct access tube installation is absolutely vital for accurate measurement of soil moisture profiles.

To get the best performance from Profile Probes, the augured holes should be straight, smooth sided and the correct diameter. The goal is to produce optimal contact between the soil and the wall of the access tube. However, if substantial stoniness or compaction, or the presence of voids, foreign bodies, or soil instability are features of a particular site, it may not always be possible to install an access tube successfully.

**PR2 Profile Probe - SDI 12 version**

The PR2 SDI-12 is a new digital alternative to the well-established analogue PR2 Profile Probe. It shares the many strengths of the analogue PR2 soil moisture probe, but with the addition of SDI-12 compatibility - allowing integration into new and existing SDI-12 systems.

**Features**

- Available in two sizes to measure to a depth of 40 cm or 100 cm
- Soil moisture content - not just trends
- Highly reliable field-proven instrument
- Low salinity and temperature sensitivity
- Portable meter option for convenient multi-site measurement
- Out of the box solution - supplied with calibrations for common soil types
- IP68 protected connectors for versatile connectivity
- Uses access tubes for easy probe insertion and removal
### Specifications

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<th>Model types</th>
<th>PR2/4 and PR2/6</th>
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| Sensing depths | PR2/6: 10, 20, 30, 40, 60, 100cm  
                 | PR2/4: 10, 20, 30, 40cm (nominal) |
| Measurement    | Volumetric soil moisture content V (m$^3$.m$^{-3}$ or % vol) |
| Range          | Accuracy figures apply from 0 to 0.4 m$^3$.m$^{-3}$  
                 | Full range is from 0.0 to 1.0 m$^3$.m$^{-3}$ |
| Accuracy$^{[1]}$ 0.0 to 0.4 m$^3$.m$^{-3}$ | ±0.04 m$^3$.m$^{-3}$  
                 | 0 to 40°C |
| 0.0 to 0.4 m$^3$.m$^{-3}$ | ±0.06 m$^3$.m$^{-3}$  
                 | 0 to 40°C |
| Salinity errors | Included in above accuracy figures (50 to 400 mS.m$^{-1}$, 0.5 to 4 dS.m$^{-1}$, pore water conductivity). |
| Soil sampling volume | Vertically: ~95% sensitivity within ±50mm of upper ring of each pair. Horizontally: ~95% sensitivity within a cylinder of radius 100mm. |
| Environment    | 0 to 40°C for full accuracy specification, −20 to +70°C full operating range. IP67 rated when installed in access tube. |
| Response time  | Full accuracy achieved within 1 second$^{[2]}$ |
| Power requirement | Minimum: 5.5V DC with 2m cable, 7.5V with 100m.  
                  | Maximum: 15V DC.  
                  | PR2/4 consumption: < 80 mA  
                  | PR2/6 consumption: < 120 mA |
| Outputs        | 4 (PR2/4) or 6 (PR2/6) analogue voltage outputs: 0 to 1.0V DC corresponding to 0 to 0.6 m$^3$.m$^{-3}$ (mineral calibration). |
| Cable          | Standard and extension cables (see ordering information) |
| Construction   | 25.4mm polycarbonate with pairs of stainless steel rings. |
| Size/Weight    | PR2/4 length: 29”  
                 | Weight: 1.3 lbs.  
                 | PR2/6 length: 53”  
                 | Weight: 2 lbs. |

### Ordering Information

**PR2/4**  
Profile Probe - short, comprises 4 x integral soil moisture sensors 40 cm long

**PR2/6**  
Profile Probe - long, comprises 6 x integral soil moisture sensors 100 cm long

**ATS1**  
Access Tube for PR2/4. includes cap, bung and collar

**ATL1**  
Access Tube for PR2/6. includes cap, bung and collar

**PR-ASK1-S**  
Augering starter kit (short) Includes: pilot auger, stabilization plate, and access tube insertion rod.

**PR-ASK1-L**  
Augering starter kit (long) Includes: pilot auger, finishing auger, stabilization plate, access tube insertion rod, and mallet.

**PR-AKC1**  
Complete augering kit Includes: pilot auger, finishing auger, stabilization plate, access tube insertion rod, mallet, flexicanes, carrying bag, and cleaning rod

**PR-EXK1**  
Access tube extraction kit. Includes; ladder jack with bag, jack foot, strap, and access tube expansion clamp with lever bar.