

Device: GP-Lite Sensor, SDI-12 I/O, 3-Wire Cable, Optional M12 Connector
Item ID: 2585

Cable Wiring

M12-5 Connector Pinout	Wire Colour	Function
1	Red	Power
2	N/A	Not Connected
3	N/A	Not Connected
4	White	SDI-12 I/O
5	Green	Ground

Specifications

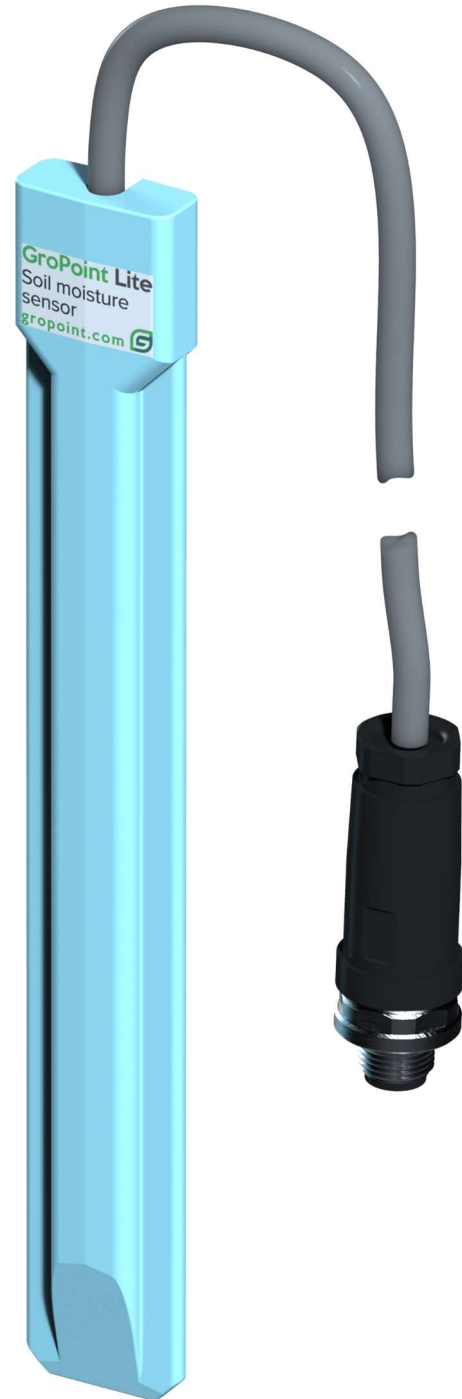
Moisture Measurement	0% to 50% volumetric water content
Output	SDI-12 V1.3 (All basic commands)

Ratings

Parameter	Operating	Absolute Maximum
DC Input Voltage	6.0 to 14.0 VDC	18.0 VDC
DC Input Current	15 mA (0.1 mA Idle)	100 mA
Temperature	-20°C to +70°C	-40°C to +85°C

SDI-12 Timing

Parameter	Time
Power on Time	75 ms
Measurement Command Response Time	2 s
Measurement Time	100 ms



Need Help? Email support@gropoint.com or visit www.gropoint.com/support

SDI-12 Command Table (a = sensor address)

Command	Function	Response
a!	Acknowledge	Device address (default address is '0')
aI!	Send Identification	Identification string "a<VN>RIOTTECHGPLITE<FV><SN>"
aAb!	Change Address	Change device address to 'b'
?!	Address Query	Device address
aM!	Start Moisture Measurement	Measure time and count "a<TTT><N>"
aC!	Start Concurrent Moisture Measurement	T is time in seconds N is the number of values
aD0!	Send Data	Measurement results

Example GP-Lite Measurement Sequence

0M! 00022 0 0D0! 0+0.1+22.5	- Start measurement sequence - Return moisture percentage and temperature value
---	--

Need Help? Email support@gropoint.com or visit www.gropoint.com/support