



Measured by Experience

MEA2279 GBHeavy Interface

The MEA2279 GBHeavy Gypsum Block Interface produces a voltage output for a resistance input.

The device supports up to four GBHeavy gypsum blocks.

Starting a Measurement

In order to make a measurement, apply a voltage in the range 5V to V+(10...16V) to the 'Trigger' line.

Current consumption is approximately 20mA.

There are two methods for starting a conversion: -

- have the power supply permanently connected and then pulse the trigger or
- tie both the power supply and the trigger lines together and pulse the pair of them.

Regardless of which triggering method is used, there will be a delay of 1.5 sec between the trigger pulse and stable voltage output, as the device will take some time to make a valid reading and to stabilise the output.

Calibration

The output voltage varies linearly between 0 and 2.50 volts as soil moisture tension varies between 28 and 800kPa.

Gypsum Block Inputs

Channel	Colour	X1
1	Red	5
1	Blue	8
2	Green	2
2	Yellow	6
3	White	1
3	Black	3
4	Brown	4
4	Purple	7

Outputs (0 to 2.5V)

Channel	Colour	X2
1	Blue	1
2	Yellow	4
3	Green	5
4	Brown	6
Com/GND	Black	2,3

Power Supply

	Colour	X3
V+ (10 to 16V)	Red	1
Com/GND	Black	2
Trigger	White	3
Com/GND		4