

Daughter Board Detailed Description

The main PCB (mother board) includes both the TX circuitry and the main digital circuitry. The product has four sub-models each with a different daughter board. The daughter boards function as an interface between the digital part of the main board and the different types of external inputs (sensors). The four models share the same TX circuitry which is resident only on the mother board PCB. There is no TX circuitry on any of the daughter boards.

The explanation below provides an overview of the differences between the four sub-models:

P/N	Model Description	Daughter Board Description
74300-002110	Irriwise Weather Station Transmitter	The daughter board provides an interface for converting serial communication at a TTL level to an RS232 interface.
74300-001425	Irriwise GROPOINT Transmitter	The daughter board provides an interface for the GROPOINT moisture sensor which is an analog sensor. The daughter board includes a DC-DC converter allowing the interface to the specific sensor which operates at 9 Volts.
74300-001525	Irriwise Tensiometer Transmitter	The daughter board provides an interface for a Tensiometer moisture sensor which is an analog sensor. The daughter board includes a DC-DC converter allowing the interface to the specific sensor which operates at 5 Volts.
74300-001625	Irriwise Water Meter Transmitter	This model connects to a water meter and counts pulses (dry contact). This model does not use any daughter board (the meter interfaces directly to the digital part of the main board).