

Installer Instructions for Harvest Frost Alarms/Weather Stations

(NZ ver 5)

Basic Input Configuration

Digital 1 – Rain Gauge

Digital 2 – Not to be used (used internally for wind speed)

Digital 3 – Engine run input (relay input)

Digital 4 – Not generally to be used (used internally for test button)

Sensor 1 – Wired Temp/humidity sensors 1

Sensor 2 – Wired Temp sensors 2

DC Supply – Input direct from battery via plug-in connector

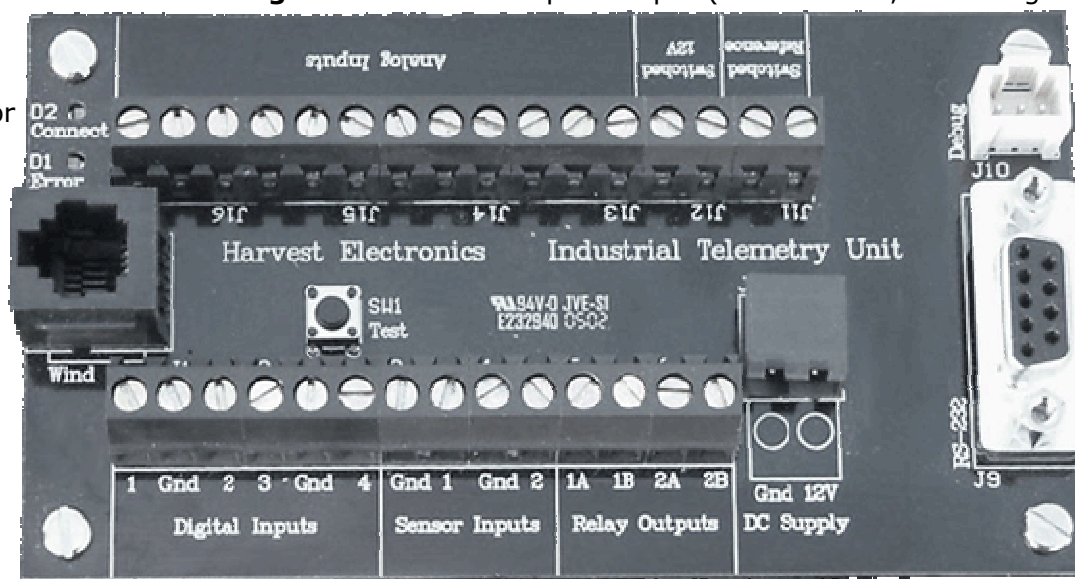
Analog 1 – Usually used for soil moisture

Analog 2 – Not to be used (used internally for wind direction)

Analog 3 – Usually used for voltage monitoring

Analog 4-7 – Can be configured for either analog or digital inputs

Analog 8 – Used for solar panel input (red lead to 8, black to gnd)



Sensor restrictions: (some of which may have to be explained to customer)

-Wired Temp sensors can be run up to 100m from base unit

-Wired Temp/humidity sensor can only be run up to 20m from base unit

-Wireless Temp sensors have a range of up to 250m

-Temp/humidity sensor should always be used as sensor 1

-Soil moisture probe cable comes standard with 5 metres of cable but if customer request we can take it up to a max of 10 metres

-Soil temp probe comes with 15 metres of cable

-Wind sensor doesn't have to be mounted on solar unit and cable can be extended

Things To Note During Install

- Make sure there is Vodafone coverage (at least 1 bar) at the site before install
- When first powering the unit up always plug in the battery first and then hook up the solar panel connector (all NZ units will be shipped with power already hooked up)
- Solar panel MUST always face North (for calibration of wind sensor and so battery gets maximum charge)
- Please always ring during or immediately after installation
- To force a call through with the latest recordings the test button can be used

The Basics of the Harvest System

Costing: *(Please contact us for reseller discount, all prices stated do not include gst)*

The base solar powered frost alarm/weather station is \$2100 from where options are added.

Options:

Humidity/dew point	\$200	
Rain gauge (1mm tip)	\$100	
Rain gauge (0.2mm tip)	\$250	
Wind speed and direction	\$300	
Additional temp sensor	\$100	
Additional temp sensor transmitter	\$100	(units support four temp sensors total)
Soil moisture	\$250	(5m, 10m or 15m cable lengths)
Soil temperature	\$100	
Solar radiation	\$350	
Leaf wetness	\$250	

There is no additional cost for monitoring engine run on wind machines and pumps, wind machine battery voltage and flow meters.

Ongoing running costs are \$600 per year which provides you with hourly reporting with ten minute logs above three degrees Celsius and one minute reporting and logging below three degrees.

Explaining Wireless:

There are four parts to a wireless frost alarm – the base unit, receiver, transmitter and temp sensor. Eg, our base solar powered frost alarm/weather station includes a receiver however not all units have the receiver but they can be upgraded for \$100 so they can handle wireless as long as they are in a stainless steel casing.

Harvest Warranty:

Our systems have a lifetime parts warranty - Harvest supplies all parts which the customer can swap out themselves or they can pay you to do it. For major problems we may require the customer or you to send the unit back to us for overnight repair.

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