



## PRODUCT SHEET

### Intelligent Probe Controller (IPC) RS 485 and SDI-12 Versions

The IPC RS 485 / SDI 12 is a microprocessor based device which controls the collection data from sensors and encodes this information for transmission via radio. The device will support up to three 485 or SDI-12 based instruments such as the Sentek EasyAG and EnviroSMART soil probes.



**Features:**

**Internal spread spectrum radio (optional)** – the IPC units can be supplied with factory fitted spread spectrum radio which uses licence free 900 MHz spectrum.

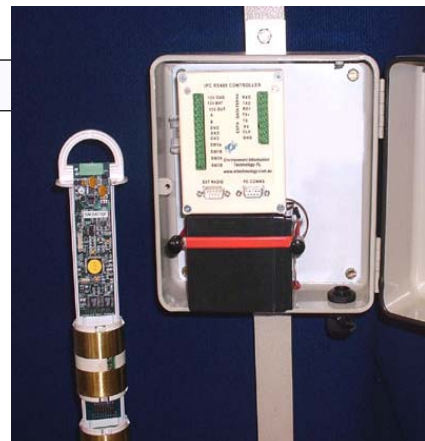
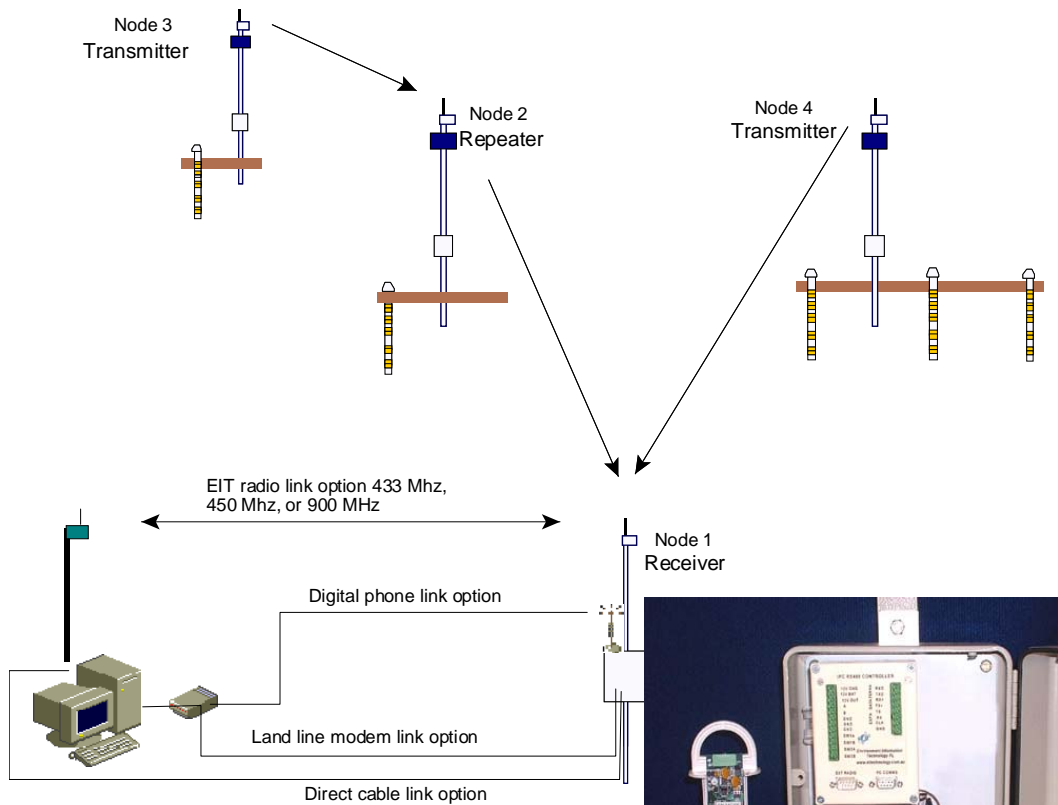
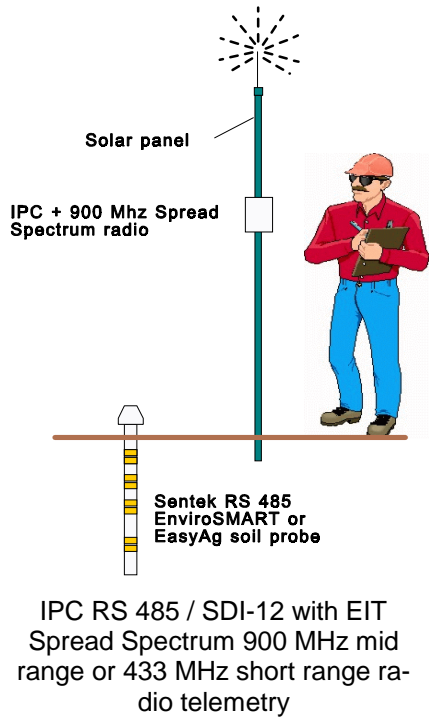
**Internal solar panel voltage regulator** – The unit has been equipped with an internal voltage regulator to suit a charging current to a maximum of 1.5 amps. The front panel provides terminal connections for the solar panel, battery, probe power supply and data communication options. The internal voltage regulator means that a smaller housing can be used for field setup.

The front panel terminal block and internal electronics makes future provision for two relay switches rated at 24 VAC and 1 amp. It is envisaged that these switches will be used for alarm activation based on input data from attached sensors.

The IPC controls power switching of high power radios (up to 5 watt) as supplied by Trio Datacom and Standard Communications GME. In multi point situations the IPC can be programmed to act as both a data collecting device and data repeater unit. The IPC is compatible with EIT (433 MHz) Datatenna and spread spectrum radios.

<b>Product code</b>	<b>IPC - RS 485 or IPC – SDI-12</b>
Input protocol	RS 485 or SDI-12
Input options	Up to 3 SDI-12 sensors - EasyAg or EnviroSMART soil probes
Minimum scan period	10 seconds
Sensor settling time	1 - 999 seconds (user adjustable)
Operating current	4 mA in standby Up to 200 mA eg during UHF power up (typically less than 1 second)
Radio options	EIT 433 MHz radios, 900 MHz licence free radios, Trio / GME 5 watt radios
Programming	Via EIT IPC software (Windows 95 and later)
Size	90 mm * 90 mm * 120 mm
Weight	300 gms
Applications	For use where radio is required to provide a data link between remotely positioned sensors and a base station data recorder or PC. The IPC controls the 'power up' functions of sensors and radio thus greatly reducing field power requirements.

# Product Update – IPC RS 485



Environment Information Technology  
 1/19 Kays Lane. PO Box 20.  
 Alstonville. Australia. 2477  
 Phone 02 66 283400 Fax 02 66 283500  
 www.eitechnology.com.au