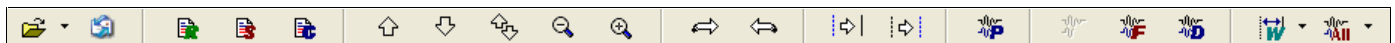




Sampling Unit with 4 port Fan-out Cable & Current Sensor

Analysis Toolbar



Sensor Features:

- Non-Intrusive, small, clamp-on AC/DC sensor
- Sensitive down to a resolution of 10 microseconds
- Single cable for power and output
- Shielded enclosure (curved mu-metal strip)

Sensor Description:

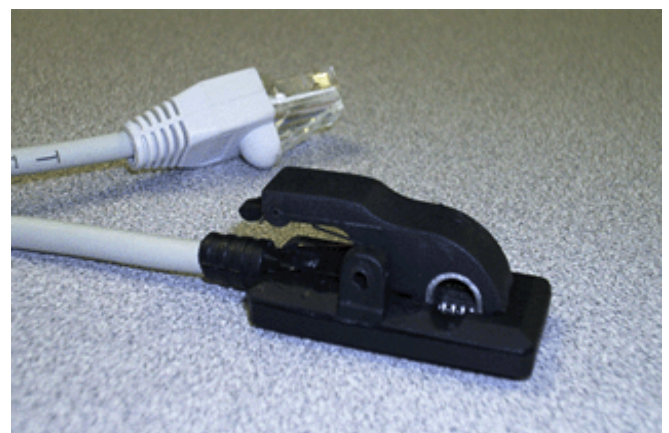
The sensor is a small, non-intrusive, clamp-on sensor that uses a Hall Effect chip in order to sense current flow through 12 AWG electric wires. The sensor has a curved mu-metal strip used for shielding against external magnetic fields and used for amplifying internal fields. It has a clothespin like enclosure and is capable of sensing microsecond transients (AC and DC) with a 2% accuracy range. The sensor uses a single RJ45 cable with 4 pins dedicated for both power and output signals.

Sensor Outputs:

The sensor provides an analog output of 2.5 +/- 2.5V with respect to ground. With zero current, the output is at 2.5V and will go toward 0V when the current is negative and toward 5V when the current is positive. The analog output is proportional to the actual value of current flow through the wire. With the enclosure as shown in the following picture, 100 milliamps of current flow produce a 6 millivolts increment on the output terminals, and zero current floats under 20 millivolts, and saturation occurs at 40 amps secondary.

Sensor Specifications:

Signal Output	2.5 +/- 2.5 VDC
Supply Voltage	5 VDC
Supply Current	16 mAmps
Sensitivity Range:	0.2 to 40 Amps Secondary
Maximum Conductor	12 AWG
Response Time	10 microseconds
Bandwidth	DC to 10 KHz
Dimensions (L x W x H)	1.56 x 0.78 x 0.41 inches
Accuracy	2 %
Temperature Range	-40 to 85°C
Humidity Range	0 to 90% non-condensing
Cable Length	10 ft
Cable Connector Type	RJ45 Male



Clamp-On Current Sensor

Sampling Unit:

The sampling unit is a hand-held, A/D device that transmits data continuously to a host computer over a USB connection at rates of 16K samples/second. The USB connection uses a single cable for both power and communication signals. The DB25 to RJ45 fan-out cable can have up to eight (8) RJ45 ports. The fan-out cable shown in our evaluation kit image on page one has four (4) RJ45 ports. The RJ45 ports are used to power up the sensors and carry their outputs.



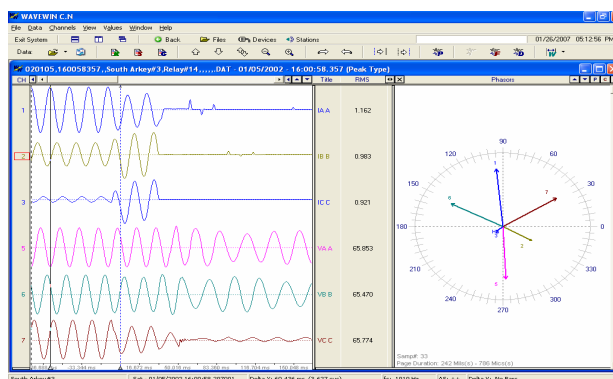
Sampling Unit

Sampling Unit Specifications:

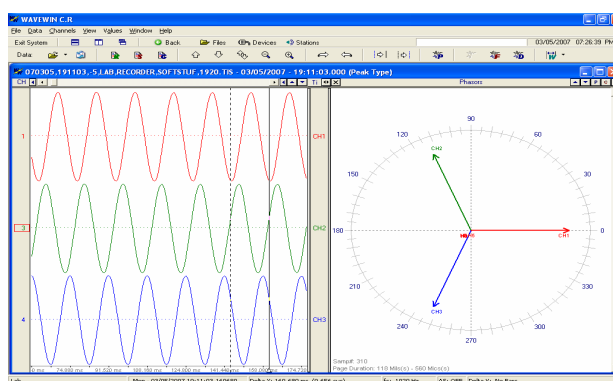
A/D Resolution	12-Bit A/D Input
Analog Inputs	8 Single-Ended
Sampling Rate	16KHz Max for 8 Channels
Input Range	0 to 5 Volts
Current Draw	Max of 500 mAmps
Dimensions (L x W x H)	3.8 x 2.4 x 1.1 inches
Temp Range	0 to 50°C
Humidity Range	0 to 95% non-condensing
USB Device Port	USB Type B, Female
Analog Input	Single DB25 female
USB Cable Length	3 ft

Evaluation Kit Features:

- Compact, lightweight portable package
- Sampling Unit equipped w/ 12-bit A/D converter
- Four non-intrusive clamp-on current sensors
- Fan-out cable w/ four (4) RJ45 female ports
- Display & analysis software
- Sniffer software and manual
- User selected sampling rates
- USB 1.1 connection provides Plug & Play support
- Power supplied by USB power bus



Wavewin Display & Analysis Software



Wavewin Display & Analysis Software

Channel Information:	Name	Offset	Scale	Unit
<input checked="" type="checkbox"/> CH1:	Channel1	201.3	0.203	Amps
<input checked="" type="checkbox"/> CH2:	Channel2	201.3	0.203	Amps
<input checked="" type="checkbox"/> CH3:	Channel3	201.3	0.203	Amps
<input checked="" type="checkbox"/> CH4:	Channel4	201.3	0.203	Amps
<input type="checkbox"/> CH5:				
<input type="checkbox"/> CH6:				
<input type="checkbox"/> CH7:				
<input type="checkbox"/> CH8:				

Wavewin Sniffer Software

Contact Us:

To purchase a Wavewin Sniffer package, please contact Frank Rothweiler @ 215-869-2298, frank@softstuf.com.

Hours: Monday through Friday, 9:00 a.m. to 6:00 p.m. EST (Visa, Master Card and/or Purchase Orders accepted)

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