The **Black Star 1325** measures frequency and period from 5Hz to 1.3GHz. The microprocessor controlled reciprical measurement technique gives a fast response and high resolution at all frequencies.

Specifications

Input Ranges

Frequency A:	5Hz to 25MHz
Period A:	200ms to 40ns
Frequency B:	20MHz to 1.3GHz

Sensitivity

Input A:	<30mV to 20MHz
	<35mV to 25MHz
Impedance:	1M/25pf, AC coupled
Input B:	<15mV to 700MHz
	<50mV to 1.3GHz
Impedance:	nominally 50R

Maximum Input Voltage

Input A:	30V DC or Ac peak
Input B:	30V Dc or AC peak at 50/60Hz decreasing to 1V rms above 1MHz

Resolution

Input A:

	Digits of Resolution vs gate time		
Frequency	0.1s	1.0s	10s
5Hz to 25MHz	5	6	7
1MHz to 10MHz	6	7	8
10MHz to 25MHz	7	8	9

Input B:

	Digits of Resolution vs gate time		
Frequency	0.1s	1.0s	10s
20MHz to 100MHz	5	6	7
100MHz to 1GHz	6	7	8
1GHz to 1.3GHz	7	8	9

Note: Hysteresis is added to all ranges to prevent display flicker, e.g. 999.99Hz changing to 1KHz will be displayed as; 999,99Hz and 1000.00Hz. 1kHz will normally be displayed as 1.0000kHz

Timebase

Frequency:	10MHz
Setability:	+/-1ppm
Temp Coefficient:	+/-10ppm from-10ºC to +70ºC
Ageing:	<5ppm/year

Other Functions

Display Hold, Min/Max, HF Reject

Power Requirements

Battery:	6 x disposable 'C' cells. Battery life minimum 70 hours, typically 200 hours. (Batteries not included)
Mains:	220 to 240V AC +/10% 50 - 60Hz

General

Operating Temp:	+5ºC to +40ºC 20% to 80% RH.
Storage Temp:	-20ºC to +60ºC
Size:	219 x 240 x 98mm (product only)
Weight:	1.4kg (product only)

Options

Option 1:	RS232, External Clock Input (TTL) RS232 interface provides complete control of all of the

	frequency counter functions, and retrieval of displayed reading. Baud rate is 2400.
Option 2:	RS232, TCXO, External Clock Input (YTTL)
	Frequency: 10MHz
	Temp Coefficient: +/-1ppm 0ºC to +50º
	Setability: +/-0.2ppm
	Ageing: <1ppm / year