



e-Tracker Portable Energy Monitor

The e-Tracker is a portable kWh meter which monitors the incoming power supply to show the pattern of demand over an hour, day, week or month. As e-Tracker is portable you have the flexibility to use it for measuring circuits and specific equipment without the need to have a fixed sub-metering solution.



All data exported to Deltrax 5 software and Excel.

Features:

- Mains or 16 day battery operation
- Magnetic back for easy mounting
- Multiple memory locations
- Pulse input
- Optional voltage connections
- CT amps range indicator
- Clip-on CTs for fast safe instalation
- EV-Trac electrostatic phase identifier
- Optical or magnetic gas meter reader available
- Deltrax5 software is Windows 7 compatible

The e-Tracker also displays average and peak demand to enable the calculation of load factor. Deltrax5 software highlights demand excursions and potential unauthorised consumption.

Sold as a full kit comprising

- e-Tracker with integral EV-Trac
- 1Ø -3Ø Voltage reference converter
- Set of 3 F30-1000 Dual range flexeclamp CTs 30cm - 1000Amps/200Amps
- Set of 3 fused volt clips
- Single phase lead, EV-Trac phase identity probe
- Report and graphical analysis software
- 1 USB memory stick
- Carry case
- Total kit weight 4kg

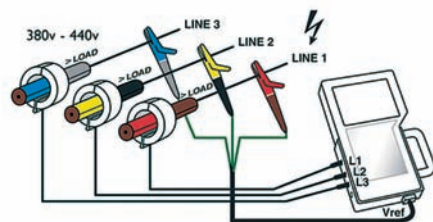


Three practical, accurate connection options (for single and 3 phase use):

Use e-Tracker with its fused voltage clips for maximum accuracy on all parameters

3Ø direct voltage measurement

CT load direction arrows to face load, CT colour must match colour coded voltage clips

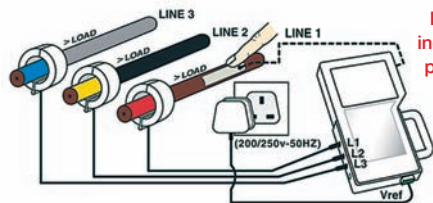


Follow standard safety procedure

EV-Trac 3 phase volt reference conversion from a single phase socket

3Ø EV-Trac voltage pickup

1Ø to 3Ø voltage synthesis



Finger held probe included to identify phase on low load

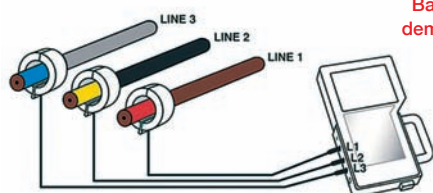
Battery on permanent charge via socket

For single phase use CT1 and 13A plug

Battery only operation measuring current and calculated kVA demand profiles

3Ø current recording

With calculated kVA demand profile



Basic recordings of demand profiles and phase balance

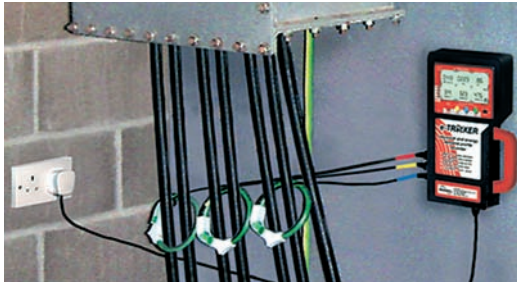
2+ weeks battery life

EV-Trac Installation examples

e-Tracker magnetically clamps to the transformer housing and tracks the voltage at the socket.

The 3 phase vectorial equivalents are calculated then assigned to the appropriate measured current phases, thus maintaining power factor accuracy.

Where the load current is too low for auto identification, e-Tracker will request the use of its EV-Trac Probe. This is simply touched to the cable installation for the display to indicate identity L1, L2 or L3.



e-Tracker Operational Specifications

ELECTRICAL

Current Input	Clip-On or Flexeclamp CTs, 400mV. FS output
Current Range	50Amps full scale - 2500Amps full scale
Voltage Direct 3Ø	450V L-L 50Hz via voltage Clips
Voltage Direct 1Ø	240V 50Hz via 1Ø socket outlet
Voltage Nominal	Adjustable 1Ø 220V +/- 10%, 3Ø 400V +/-10%
Pulse Input	Volt free contact interface option
Battery	Rechargeable cyclon 4V/2.5AH battery
Charge sources	Integral charger via voltage connections
Battery life	Approx 2 weeks of recorded current and calculated kVA only
Insulation inc CTs	2.5kV for 1min
Connection Leads	CT to Plug 1.5m

ACCURACY

Clip-On CTs	True RMS measurement of voltage & current +/-1% percentage of reading @25°C for PF -0.7 -1 & 10% -100%IP
Flexeclamp CTs	+/-2% of reading within conditions as above

CONSTRUCTION

Material	ABS case with insulated magnetic mounting panel
Climatic	Oper.Temp -10°C--+50°C, 95% RH (NC), IP30 protection

STANDARDS

Calibration & Safety	IEC 1036 and IEC 61010-1
EMC	EN55022:1994, EN50082 Pt.1 1992

Memory Span

e-Tracker has capacity to store 16,000 lines of all parameters, either on one file or as an aggregate total on up to five separate recording files. Recording will stop when the memory is full.

Integration Period Mins.	60	30	20	15	10	5	2	1	0.1(6s)	H1(1sec)
Memory Duration Days	666	333	222	166	111	55	22	11	25 hrs	9 hrs*

*V₁, V₂, V₃, I₁, I₂ & I₃ only

e-Tracker CT Selection

CT Style	CT Part Number	Nominal Size		Amps range	Nominal Ip PF-0.7 to unity temp 25'c 50/60Hz	Accuracy Capacity mm	Clip-on Nom	Outlines
		ID	OD					
Hinged Clip On	TC16	16mm	54mm	4-200	1.0%	16x16	16	
	TC32	32mm	72mm	5-500	1.0%	32x18	32	
	TC48	48mm	84mm	6-1000	1.0%	42x25	48	
	TC60	60mm	90mm	8-1500	1.0%	58x25	60	
Flexeclamp Clip Round	TF30	300mm length		10-1000	2.0%	20x85	90	
	TF40	400mm length		10-1500	2.0%	60x130	120	
	TF50	500mm length		20-2000	2.0%	70x150	155	
	TF60	600mm length		20-2500	2.5%	70x200	190	
	TF70	700mm length		20-2500	3.0%	70x265	215	
Precision Clip On	THSSB	15mm	45mm	1-100	1.0%		15	

In pursuance of our policy of continued improvement Marshall-Tufflex Energy Management reserve the right to change the design or specification of its products without notification.



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