

ELF[™] 3200 Series
Digital Energy, Power & Voltage, A, F Meters



So much in so little!

Tiny !

- + 96 x 48 mm. Depth 40 mm
- + Exciting new applications
- + Low CT, PT, Aux Supply burden

Smart !

- + True RMS
- + Auto scaling: Kilo - Mega - Giga
- + 3 Phase Wiring Check
- + Large Multi-function display
- + Auto-scrolling
- + INTG (Energy Parameters)
- + OLD Energy Parameter (Wh, VAh, VARh, -VARh) previous energy values

- + Easy access to setup using right key during power on
- + Unbalance in phases (%Unbal), RPM, Load %

Global !

- + Universal operation
- + Dustproof
- + Retrofit 90 mm² cutouts
- + Protection from accidental contact with live terminals
- + User programmable, Multiple Parameters
- + User programmable Star or Delta. For the first time, you don't even need to specify CT secondary (1A / 5A)
- + User Programmable CT, PT ratios - Primary and Secondary
- + Wide range of Auxiliary Supply

Rugged Construction

- + Emission : CISPR 22
- + Fast Transient : Upto 2kV
- + IEC 61000-4-4, level 3
- + Impulse voltage : 6kV, IEC 60060, 1.2/50

Models

Product Version V02.05

Parameter	ELF 3259	ELF 3234				ELF 3234-3		
		User PAR Setup ¹				User PAR Setup ¹		
		W	VA	VAR	PF	W	VA	VAR
RMS AVG L1 L2 L3	V	•						
	A	•						
	% Load	•						
	% Unbal	•						
	F	•						
	RPM	•						
RMS TOTAL L1 L2 L3	W		•			•		
	VA			•			•	
	VAR				•			•
	PF				•	•	•	•
INTEG 3PH energy	Wh		•			•		
	VAh			•			•	
	VARh				•			•
	-VARh				•			•
OLD 3PH energy	Wh		•			•		
	VAh			•			•	
	VARh				•			•
	-VARh				•			•

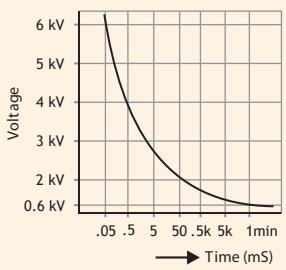
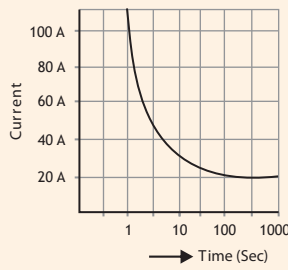
Note1: Set up parameter (PAR) is user programmable as shown.

- + 10 year back-up of integrated (Energy) data
- + VA measurement selectable: 3D or Arithmetic

For comprehensive parameters and simultaneous viewing, we recommend the

EM 6400 Series DigitAN[™]

Technical Specifications

V input overload withstanding		A input overload withstanding	
			
+ Sensing	: True RMS, 1 sec update time 4 Quadrant Power & 2 Quadrant Energy		
+ Input	: 4 Voltage inputs (V_1, V_2, V_3, V_N) 110 or 415 V L-L nominal (Range 80 to 500 V L-L)		
+ Auxiliary Supply (Control Power)	: 80-270V ac, 45 to 65 Hz		
+ Input current	: Current inputs (A_1, A_2, A_3) Field configurable 1A or 5A (Range 50mA to 6A) Overload 10A max. continuous 50A max. for 3 Seconds		
+ Burden	: 0.2 VA max. per Volts / Amps input 3VA max. on Auxiliary Supply		
+ Frequency	: 45 to 65 Hz		
+ Display	: 4 Digit 7 Segment 14 mm LED Display		
+ Display sequence	: Parameter (2 Sec), Value (8 Sec)		
+ Resolution	: Energy 8 digit (4 per page) Power, 3ϕ V, A, Hz 4 digit		
+ Environmental	: Operating Temperature - 10°C to 60°C (14°F to 140°F) Storage Temperature - 25°C to + 70°C (-13°F to 158°F) Humidity 5% to 95% Non Condensing		
+ Weight	: 225 gms approx		
+ Dimensions	: Bezel 96 x 48 mm Depth 40 mm behind Bezel		
+ Panel Cut-out	: (90 ⁺¹ ₋₀) x (43 ⁺¹ ₋₀) mm		
+ Mounting	: Flush Mount, Slide Lock		
+ Warranty	: 3 Year from date of Invoice		

Accuracy

Class 1.0: W / Wh: Class 1.0 as per IEC 62052-11 & IEC 62053-21, VAR / VARh: Class 2.0

All other parameters 1.0% of reading.

Class 0.5: W / Wh: Class 0.5 as per IEC 62052-11 & IEC 62053-21, VAR / VARh: Class 1.0

All other parameters 0.5% of reading.

Note: 1. PF Accuracy same as W/Wh in %

2. Additional error of 0.05% of full scale for current below 200 mA

3. Full-scale 3 x 240V x 5A

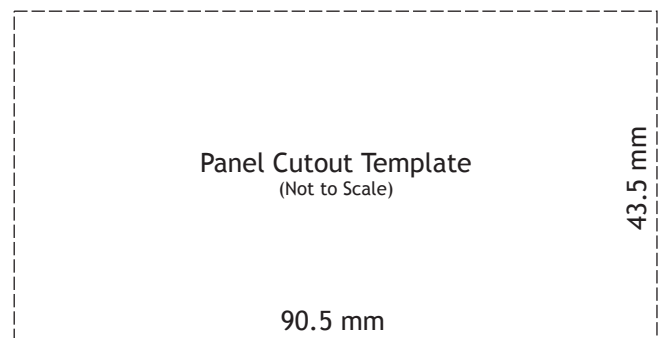
Accessories

Optional: Fused Voltage Probes & Clamp-on Current Probes for portable use. 96 x 96 Adaptor plate

Ordering Information

Specify

Model No.	Accuracy Class
<input type="checkbox"/> ELF 3259	<input type="checkbox"/> CL 1.0 <input type="checkbox"/> CL 0.5
<input type="checkbox"/> ELF 3234	<input type="checkbox"/> CL 1.0 <input type="checkbox"/> CL 0.5
<input type="checkbox"/> ELF 3234-3	<input type="checkbox"/> CL 1.0 <input type="checkbox"/> CL 0.5



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