

AELT32 – 3 PHASE ENERGY METER

100 AMP DIRECT CONNECTED

MID APPROVED



Type	AEL.TF.32
Name	3 Phase 4 Wire, 4 Tariff, Demand Measuring, Outdoor, Active Electronic Electric Meter
Class	B
Reference Voltage (Un)	3x230/400V
Reference Frequency (Fn)	50 Hz ±%5
Starting Current (Ist)	20mA (0,04 Itr)
Minimum Current (Imin)	0,25A
Transition Current (Itr)	0,5A
Reference Current (In)	5A
Maximum Current (Imax)	100A
Operating Voltage Range	From 0.8Un to 1,15Un
IP Class	IP54 (Outdoor)
Protection Class	Two (2)
Relative Humidity Ratio	%95
Operating Temperature	-40°C, +70°C (3K7)
Connection	Direct
Mechanical Environment	M1 (2004/22/EC Directive)

Electromagnetic Environment	E2 (2004/22/EC Directive)
User Environment	For Non-Condensing Humidity Environment
Power Consumption in Voltage Circuit	≤ 2W, ≤ 10VA
Power Consumption in Current Circuit	≤ 4VA
ESD Voltage Resistance	Contact Discharge : 8 kV Air Discharge : 15 kV
Pulse Voltage	6 kV
Meter Constant	1000 imp/kWh,
LCD Display	6-3 Digit
Communication Speed	300-4800 Baud (IEC 62056-21)
Interface Unit	Optik Port (IEC 62056-21)
Battery Life of the System	≥ 10 year
Real Time Clock Battery Life	≥ 10 year
Shelf Life of the Electricity Meter	≥ 4 year
Time Clock Accuracy	0,5 s/day (at room temperature) (IEC-EN 61038)
Data Storage Capacity	1 year
Related Standards	EN 50470-1, EN 50470-3

Percentage Error Limits at Reference Conditions

Current Range	Power Factor	Percentage Error Limit (%)
0,5A < I < 1A	1	± 1,5
1A < I < 80A	0,5 ind...1.....cap 0,8	± 1

LCD MONITOR INDICATORS



Definitions of the symbols and indicators on the LCD Monitor are as follows:



The Upper Lid is Open

This symbol indicates that the upper lid is opened. If the indicator is blinking while the lid is close, then it is indicating that the lid is opened earlier. If the indicator is being displayed on the monitor continuously, then the upper lid is on open position.



The Lid of Electric Terminal Box is Open :

This symbol indicates that the lid of the electric terminal box is opened. If the indicator is blinking while the lid is close, then it is indicating that the lid is opened earlier. If the indicator is being displayed on the monitor continuously, then the lid is on open position. Symbol will disappear after the electricity meter is read.



Clock Error: If the clock does not operate normal, this symbol will be displayed.



Battery of the System: If the voltage of the battery of the system is low, this symbol will be displayed.



Battery of the Clock: If the voltage of the battery of the clock is low, this symbol will be displayed.

T1 T2 T3 T4

Tariff display: These symbols indicate the timely using active tariff period of the electricity meter.

T8

These symbol indicate currently reading active tariff on the monitor.

kWh

These symbol indicate the active energy unit.

L1 L2 L3

L1, L2 and L3 symbols indicate existence of, respectively, R, S and T phases. Using by the three-phase electricity meters.

Maximum Demand Within the Mount		Data Menu	
Demand Date		Hour Menu	
Demand Hour		Total Active Energy	
Version of the Programm		Active Energy on the T1 Tariff	
Test Display			

DIAGRAM FOR ASSEMBLAGE MEASUREMENT AND SEAL POINTS

