



ETI Power

TOD Meter
Multifunction Meter
Power & Energy Meter

Smart Power Analyzer EIPL720CR

0.2S Class Accuracy*



“आत्मनिर्भर भारत अभियान”

Description

- Smart Power Analyzer is based on 32 Bit, 100 Pin Microprocessor, with 24 Bit Six Channel Sigma Delta Front end Analog to Digital Converters. The measurement accuracy of Class 0.2 can be achieved on the practical range of operation.
- Programmable Power Analyzer is a versatile instrument used for controlling the electricity consumption and is extremely useful for putting up a limit on the drawn load. This instrument can also be used in various applications with controlled load options.
- The variants available are
 - **TMFLR70** - Smart MF LCD Meter Cl - 0.5S
 - **EIPL56ER** - Smart MF LED Meter Cl - 0.5S
 - **TMFR42** - Advance MF 7 Segment Meter Cl - 1.0
 - **TMF28** - Basic MF 7 Segment Meter Cl - 1.0

Key Features

- **0.2S Class Accuracy of Active Energy**
- 32 Bit, 100 Pin, Processor
- 1 Energy Pulse Output
- Real Time Waveform
- Voltage / Frequency Deviation
- Flicker / Transient
- Fundamental Energy
- Memory 8MB
- Various choice of Bright LCD display
- 2 Digital input & 2 no's relay output
- Demand/Max./Min./Over-Limit alarm
- Load on/ Off hours
- Power on hours
- Bi-directional Energy
- Tariff Energy
- Four-Quadrant reactive energy
- Harmonics V/A 2nd to 63rd
- Total Harmonic Distortion (THD)
- Analog output (4-20 mA)



Technical Specification

DISPLAY

- Sfere 60: LCD, Sfere70: TFT

ACCURACY

- V / A - 0.2%
- P / Q / S / PF - 0.2%
- F - ± 0.01 HZ
- \pm kWh - Class 0.2S
- \pm kVArh - Class 2

VOLTAGE INPUT

- Rated value - AC 100V, AC 380V
- Overload - Continuous: 1.2Vn Instantaneous 2Vn/10s
- Burden - ≤ 0.1 VA (per phase)
- Impedance - ≥ 1.7 m Ohm
- Frequency - 45Hz - 65Hz

CURRENT INPUT

- Rated Value - AC 1A, AC 5A
- Overload - Continuous: 1.2In Instantaneous: 2.1In/5s
- Burden - ≤ 0.1 VA (per phase)
- Impedance - ≤ 20 m Ohm

AUXILIARY SUPPLY

- Working range - AC 80-270V 50/60Hz, DC 100-350V
- Consumption - ≤ 5 VA

COMMUNICATION PORT

- RS485, Modbus-RTU, 2 - wire, up to 38.4kbps

ENERGY PULSE OUTPUT

- 1 Photo coupler output, pulse width (80 \pm 20%) ms

DIGITAL INPUT

- 2 AC wet contact inputs, Isolation: 5kVAC

RELAY OUTPUT

- 2 relay output, contact rated at AC 5A/250V or DC 5A/30V, Isolation: 2kVAC

CURRENT INPUT

- Operating temperature - $-25^{\circ}\text{C} \sim 70^{\circ}\text{C}$
- Storage temperature - $-30^{\circ}\text{C} \sim 80^{\circ}\text{C}$
- Relative humidity - $\leq 93\%$
- Altitude - ≤ 2500 m

INSULATION

- ≥ 2 kVAC

IP Degree

- Front IP64, Rear IP20

OPERATING ENVIRONMENT

- $-20 \sim 65^{\circ}\text{C}$, Humidity $\leq 93\%$, no erosion gas, altitude ≤ 2500 m

STORAGE ENVIRONMENT

- $-25 \sim 75^{\circ}\text{C}$, Humidity $\leq 93\%$

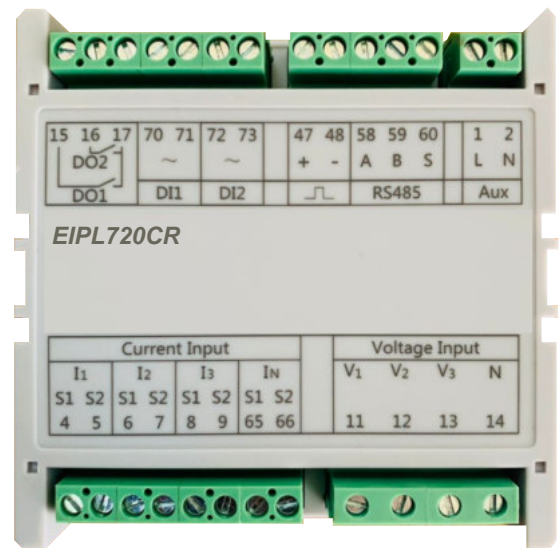
SAFETY

- Insulation - Signal, power, output terminal to shell resistance > 100 m Ω
- Withstand voltage - Input and power > 2 kV, Input and output > 1 kV, power and output > 2 kv

Communications

- RS-485 port communicates as per MODBUS Protocol & can be easily configured to an Enertrak GSM/GPRS modem for seamless & live data transmission to a host website application.

Connections



Enertrak
Instruments Pvt. Ltd.

IT-3, EPIP, RIICO Industrial Area,
Sitapura, Jaipur, Rajasthan-302022

www.enertrak.in

ak.enertrak@gmail.com/raj.enertrak@gmail.com

+91-9549061797 / +91-8233000062

Enertrak maintains a policy of continuous development & reserve the rights to change the details shown on this data sheet without any prior notice. The contents are intended for guidance only.

Registered In India with GST No. 08AACCE6423G1ZT