

PANEL MOUNTED MULTI POWER MONITOR Model 53U

FEATURES

- Single type module is usable for all of single-phase/2-wire and 3-wire, three-phase/3-wire and 4-wire systems.
- All measured variables can be transmitted to the host PC via RS-485/Modbus RTU.
- Energy count pulse or limit alarm output selectable. Pulse rate can be specified.
 Simulated output is also possible.
- Programming lock to prevent unwanted configuration changes.
- Input rating up to 480 Vac, 1 A or 5 A





User-friendly Features in Every Component Mounting bracket(s)

LCD with backlight Brightness adjustable in 4 increments

Measured value + bargraph displays

Information display Energy value display

in normal conditions (Refer to the other side for details.)

Mounting bracket(s) VI V2 V3 N 15 1L 28 2Z 38 3L STORY OF THE WAX EPIG DI DOPG MINE ESCAPE

Control Keys

Power input terminal block

Designed for safety

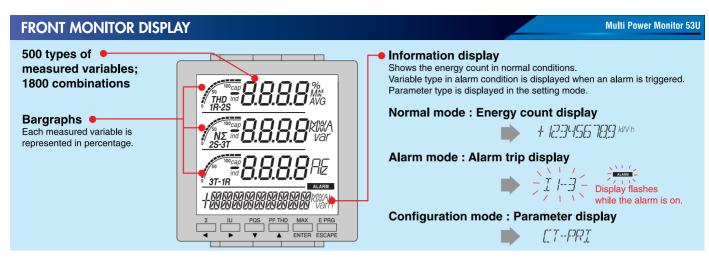
- Separable voltage input terminal block Unseparable current input terminal block Independent and different style terminal blocks are employed to prevent wiring errors.
- **Di / Do / Po terminal block**Di is typically used to reset the energy count by an external contact, or to monitor the load (motor, etc.) running or not.

-Configurator jack PC Configurator Software is available to program the module.

Network interface terminal block







SPECIFICATIONS GENERAL SPECIFICATIONS panel flush mounted Ingress protection

Construction: 96-mm square (1/4 DIN size)

Front panel: Equivalent to IP 50

Terminal block, housing: Equivalent to IP 30 Configuration: Single phase/2-wire and 3-wire,

3-phase/3-wire balanced/unbalanced load, 3-phase/4-wire balanced/unbalanced load

Housing material: Flame-resistant resin (gray) Isolation: Voltage input to current input to contact input to network interface or configurator jack to contact output to power

Measured variables

Voltage: 1 - N, 2 - N, 3 - N, 1 - 2, 2 - 3, 3 - 1Current: 1, 2, 3, N

Average current: 1, 2, 3

Active / reactive / apparent power: 1, 2, 3, Σ

Power factor: 1, 2, 3, ∑

Frequency

Active energy incoming / outgoing: Σ

Reactive energy inductive / capacitive: Σ

Apparent energy: Σ

Active / reactive / apparent power intervals

(demand)

Other demands

Hartmonic contents: 2nd to 31st

Max. and min. values

■ DISPLAY: LCD with backlight Signed: 4 digits, 3 lines Energy: 9 digits, 1 line

■ CONTACT INPUT: 24V DC or 110V DC

(input resistance 6kΩ)

Contact status can be monitored on the Modbus: usable to reset the energy count.

OUTPUT

■ NETWORK INTERFACE

Transmission: Half-duplex, asynchronous, no

Interface: Conforms to EIA RS-485 Max. transmission distance: 500 meters

Baud rate: 1.2 - 38.4 kbps Protoocol: Modbus RTU

Shielded twisted-pair cable Media:

■ OPEN COLLECTOR

Programmable for either alarm or energy count. Continuous rated load: 130V DC @30mA

Measurands applicable to alarm: Voltage, current, current intervals, neutral current, frequency, energy, energy intervals

Measurands applicable to count: Energy

INSTALLATION

Auxiliary power supply

AC: Operational voltage range 85 - 264V;

47 **–** 66 Hz; ≤4VA

Operational voltage range 99 - 264V;

≤4W; ripple 10% p-p max

Operating temperature: -10 to +55°C (14 to 131°F) Weight: 300 g (0.66 lbs)

Energy: ±1%

PERFORMANCE

Current: ±0.3%

Power: ±0.5% Power factor: ±0.5%

Frequency: ±0.1%*

Accuracy Voltage: ±0.3%*

Harmonic contents: ±1%* Response time: ≤2 seconds (0 - 99%)

Insulation resistance: ≥100MΩ with 500V DC

Dielectric strength: 4000V AC @1 minute (voltage input or current input or contact

input or network interface or configurator jack or contact output to power)

2500V AC @1 minute
(voltage input to current input to contact input to contact output to network interface

or configurator jack)

CE conformity: EMC Directive (89/336/EEC) EMI: EN61000-6-4

FMS: FN61000-6-2

Low Voltage Directive (73/23/EEC)

EN 61010

Installation category III, Pollution degree 2

EXTERNAL DIMENSIONS unit: mm (inch)

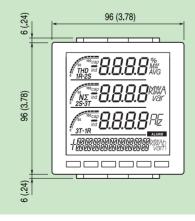
Multi Power Monitor 53U

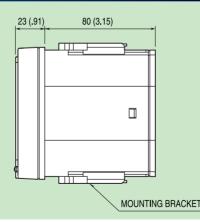
Multi Power Monitor 53U

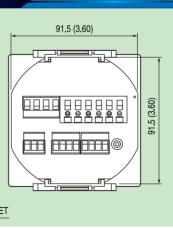
% of spans

480V for voltage 1A or 5A for current

7200W for active power







Fuji Electric France S.A.S.

46, rue Georges Besse - Z.I de Brézet 63 039 Clermont Ferrand - cedex 02 - FRANCE Fance: Tel. 04 73 98 26 98 - Fax 04 73 98 26 99 Web:http://www.fujielectric.fr/