

E-POWER

ECM600 Series

Digital Panel Meters

ECM625

➔ ECM603/603H

ECM601



Power Quality

Building Automation

Distribution Automation

Energy Management System

E-Power Technology Ltd.

<http://www.e-powertech.ca>

ECM603/H Three-phase Digital Panel Meter

Description

The ECM603 series three phase digital panel meters are suit for 220V (L-N)/ 380V (L-L) low voltage system.

The ECM603H is suit for up to 35 kV system. (input voltage is 57.7/100V).

ECM603 and ECM603H are designed for monitoring and displaying electric parameters include voltage, current, active power, reactive power, power factor, frequency, active energy and reactive energy.

The devices are user-configurable and can replace numerous single function meters. There are optional modules for different requirement, which are 4-20mA analog output, status input, relay alarm output and RS485 com.



Feature

- 3 line LED, high definition and brightness
- Sampling AC data in single or three phase system
- Optional single parameter measure or integrated measure
- External CT programmable (PT programmable as well in ECM603H)
- RS485 communication/ MODBUS protocol
- Password protect

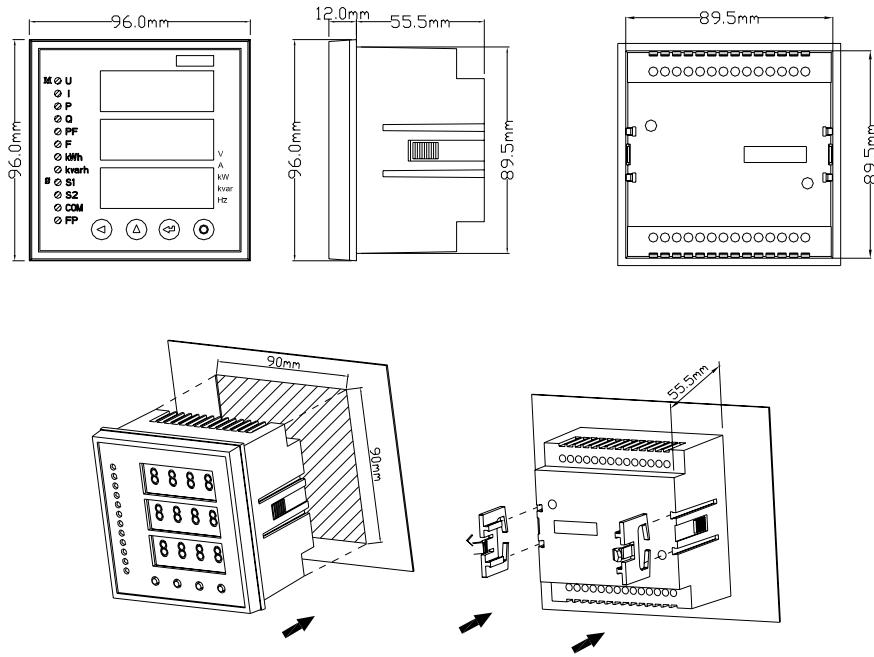
Application

- Control panels
- Switchboard
- Energy management system
- Power quality analysis

Performance Index

- Standard: DLT721-2000, IEC61000-4
- Accuracy:
 - Voltage: 0.5%
 - Current : 0.5%
 - Power: 1.0%
 - Active energy: class 1
- Power loss < 2VA
- Power frequency withstand voltage:
AC2kV/ min. ~1mA Input--Output--Power
- Insulation resistance > 50M
- Impulse withstand voltage:
5kV (peak), 1.2/50uS
- Input range:
 - Current: AC 0~5A
 - Voltage: 0~220VAC
 - Frequency: 50/ 60Hz
- Overload capability:
120% of rated current or voltage
- Communication:
 - RS485 port/ MODBUS protocol
 - Baud rate: 4800/ 9600bps
 - Address: 1~ 247
- Analog output load resistance:400
- Relay output: 250VAC/5A, 30VDC/5A
- Status input: external power supply
- Electrical fast transient/burst immunity test:
IEC61000-4-4, Level 4
- Surge immunity test:
IEC61000-4-5, Level-3
- Electrostatic discharge immunity test:
IEC61000-4-2, Level 4
- Operating temperature: -40~ 70
- Storage temperature: -50~85
- Humidity: 5~95%, non-condensing

Dimension and Installation



Order Information

ECM603-- -- (Users should provide the current input when place order.)

: Module Structure

U	Voltage	Q	Voltage + Current + Reactive Power
I	Current	K	Voltage + Current + Power Factor
F	Frequency	W	Voltage + Current + Active Energy
P	Voltage + Current + Active Power	Z	Voltage + Current + Active Power + Reactive Power + Power Factor + Frequency + Active Energy + Reactive Energy

: Auxiliary Function

A	Two 4-20mA Analog Outputs
S	Two Status Inputs
R	Two Relay Alarm Outputs
C	One RS485 Communication
RJ	Two Relay Alarm Outputs, LED Fault Indication.

Note: Auxiliary function A and R, or A and RJ can't be selected together.

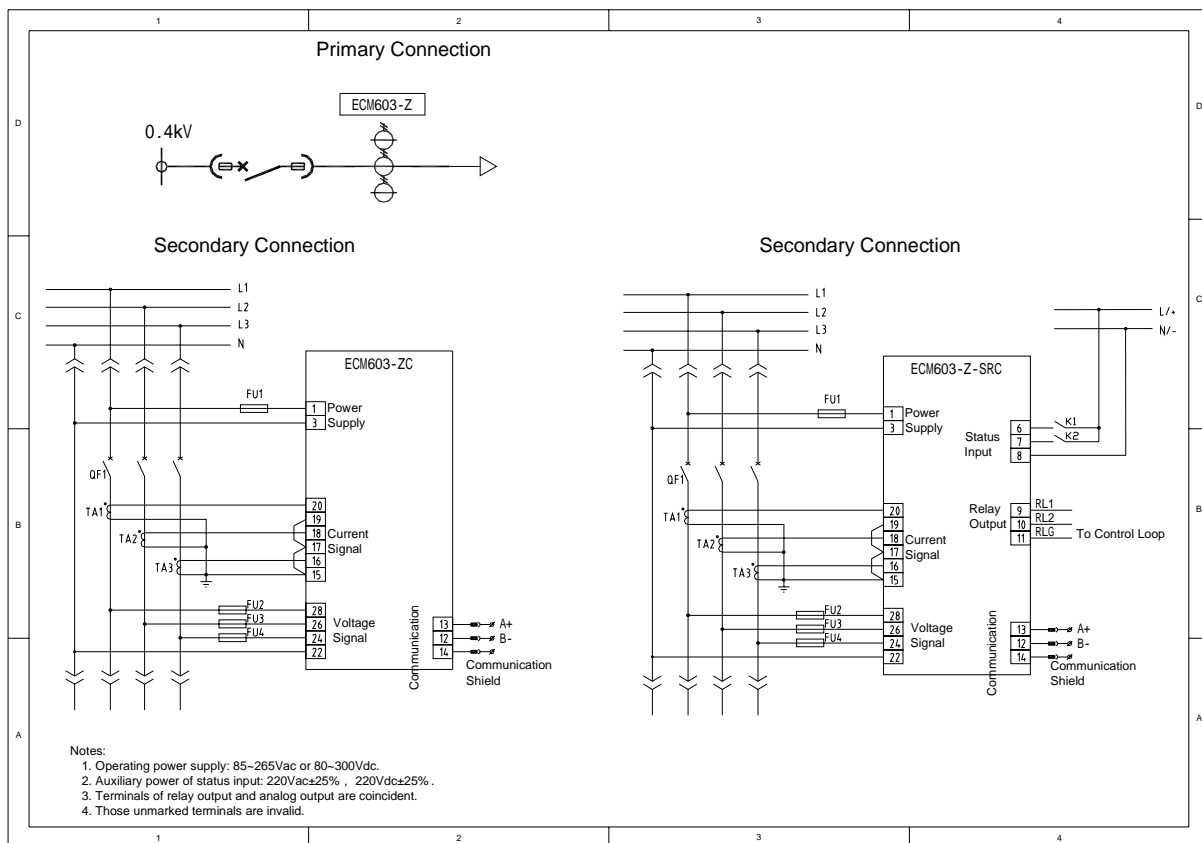
ECM603H-- (Users should provide the current input when place order.)

: Auxiliary Function

A	Two 4-20mA Analog Outputs
C	One RS485 Communication

Note: Basic measurement: Voltage + Current + Active Power + Reactive Power + Power Factor + Frequency + Active Energy + Reactive Energy

Typical Connection: ECM603



Typical Connection: ECM603H

