WATTHOUR METER

Three-Phase 4-Wire

How to read the energy (kilo-watthour)

The measured energy is shown on register in 2 formats.

1. Energy shown in the integer only. This format is used for direct-connected meter (Example in figure 1)
2. Energy shown in the integer with a decimal. This format is used for CT-operated meter (Example in figure 2)

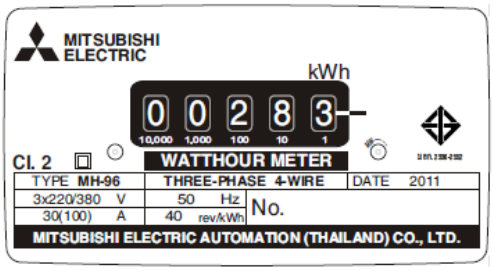

Figure 1

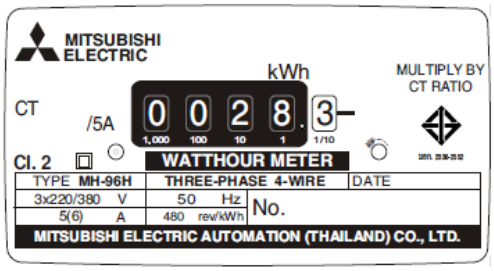

Figure 2

For example;

For direct-connected meter:

Figure 1 : measured energy is 283 kWh or 283 unit.

For CT-operated meter:

The actual energy consumption is measured by following formula..

Actual Energy Consumption = Energy reading by meter x CT Ratio

Figure 2: The energy reading by meter is 28.3 kWh or 28.3 unit, if the CT Ratio is 200/5, the actual energy consumption is measured as following.

The actual energy consumption = 28.3 x (200/5) = 28.3x40 = 1132 kWh (unit)

Watthour meter supplied in Thailand

For direct-connected type :

Model	Rating	Energy reading (kWh)	
MH-96	15(45)A 220/380V 50Hz 80 rev/kWh	99999	5 digits without decimal
	30(100)A 220/380V 50Hz 40 rev/kWh		
	50(150)A 220/380V 50Hz 20 rev/kWh		

For CT-Operated type :

(1) Bottom connected type

Model	Rating	Energy reading (kWh)	
MH-96H	5(6)A 220/380V 50Hz 480 rev/kWh	9999.9	5 digits including a decimal

(2) Switchboard type

Model	Rating	Energy reading (kWh)	
MH-96HV	5(6)A 220/380V 50Hz 480 rev/kWh	9999.9	5 digits including a decimal