

Advanced Power Meter with ELD Function

Certificates  Korea Fire Industry Technology Institute

Model No

K D Q - ① ②	① Advanced Power Meter with ELD Function	② Function	③ Communication	
		320 Advanced power meter + Leakage detector	C	RS-485
		330 Advanced power meter + Leakage detector +ACB controller	N/A	None

Overview

- Earth leakage detector function
- This device is detecting earth leakage by zero phase current transformers, which can be connected up to 16 sets. Alarm and buzzer to be activated if measured current from ZCT is exceed setting value.
- Measuring fuctions
- Voltage, current, leakage current, active/reactive/surface power, PF, frequency, energy, temperature, phase can be displayed.
- Circuit breaker control function
- The status of circuit breaker can be displayed by contact input, and circuit breaker can be controlled by relay output

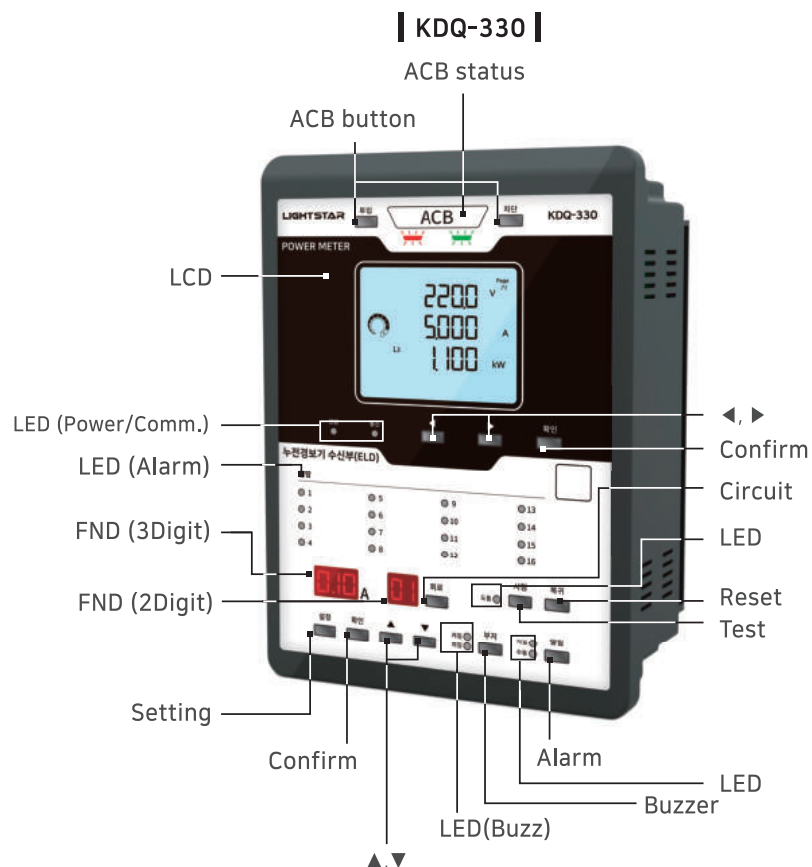
Specification

Aux. power	AC 90 ~ 260V(50/60Hz) , DC110V
Operating temperature	-10~50℃
Operating humidity	20~85%
Storage temperature	-20~60℃
Insulation resistance	More than 10MΩ
Surge impulse	Voltage(1.2μs/ 50μs,5kV) Current(8μs/ 20μs)
Burst	Level 4(IEC 61000-4-4) 4kV/2kV, 3min
Withstand voltage	AC 2kV/1min
Surge immunity	4kV/2kV
Electrostatic discharge	8kV/6kV
Maximum allowed input	110% of input range
Display	LCD(Back Light : White)
Measuring interval	1Time / sec
Weight	800g
Communication	Protocol : Modbus RTU Interface : RS-485 2wire Baudrate : 9600bps, 19200bps

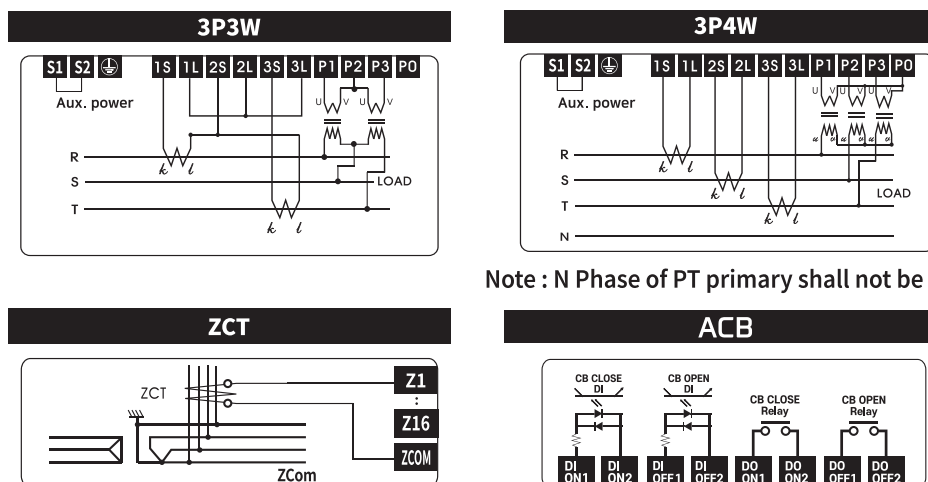
Input

Input	Voltage	Line to line 40.0~500V
	Current	0.050~5.500A
	Power factor	(lead)-0.500~1.000~0.500(lag)
	Phase angle	0.0° ~ 359.9°
	Frequency	45.0~65.0Hz
	Leakage current	0.06~1.00A (ZCT only)
Input / Output	Digital Input	ACB Input / Output(DI ON1,2/OFF1,2) AC/DC 110V or 220V
	Digital Output	ACB Input / Output(DO ON1,2/OFF1,2) AC 240V 16A, DC125V 30A Load resistor Leakage alarm contact (Ta, Tc), Temperature alarm contact (ALARMa, ALARMc) AC 250V / 1A, DC 24V /2A
Accuracy	Line voltage	±(0.3% of rdg + 0.1% of FS)
	Phase voltage	±(0.3% of rdg + 0.1% of FS)
	Phase current	±(0.3% of rdg + 0.2% of FS)
	Power factor	±(0.5% of rdg +0.5°)
	Active power	Class 0.5 as per IEC 62053-21
	Active energy	
	Apparent power	
	Reactive power	Class 1.0 as per IEC 62053-24
	Reactive energy	
	Frequency	±0.02Hz
	Leakage current	±(1% of rdg + 1digit)

Configuration



Connection diagram



Drawing

Unit : mm

