KSTAR
Powering the Future

YDS60-80
Smart Energy Meter

YDS60-80 is a DIN rail energy meter for three phase measuring.
With integrated RS-485 interface, it allows real-time reading of all relevant data,
such as energy (total and partial), current, voltage, frequency, active and reactive power.

202504-V2

MODEL	YDS60-80
General	
Network System	3P3W / 3P4W
Nominal Voltage	3 × 230 / 400 Vac, 50 / 60 Hz
Current Measurement Range	Direct Connected: from 0A to 80 A, CT Connected: > 80 A
Voltage Measurement Range	Direct Connected: from 90 V to 500 V, PT Connected: from 500 V to 1000 V
Power Comsumption	≤ 1.5 W
Mounting	On 35mm DIN rail
Measurement Category	Category III
Pollution Degree	2
Measurement Accuracy	
Current (Direct Connected)	0.5% from 8 A to 80 A, ±0.4 A from 0.4 A to 8 A
Current (CT Connected)	0.5% from 0.5 A to 5 A, ±0.025 A from 0.025 A to 0.5 A
Phase Voltage	Class 0.5
Line Voltage	Class 0.5
Frequency	±0.02 Hz from 45 Hz to 65 Hz
Power	Class 1
Power Factor	±0.02 from -1 to 1
Active Energy	Class 1
Reactive Energy	Class 2
Environmental Conditions	
Operating Temperature	-25℃ to 60℃
Storage Temperature	-40℃ to 85℃
Humidity	5% to 95% RH (non-condensing)
Altitude	≤ 2000 m
Voltage Input (Ph-N)	
Operating Voltage	3 × 230 / 400 Vac, 50 / 60 Hz
Power Dissipation Voltage Circuits	< 0.5 VA per phase
Measurement Range	AC 30 V to 265 V
Current Input	
Rated Current	3 x 1.5(6) A
Power Dissipation Current Circuits	< 0.2 VA per phase
Measurement Range	AC 0.05 A to 6 A
Communication	
Communication Protocol	Modbus
Communication Port	RS-485, half-duplex
Baud Rate	4800 bps / 9600 bps (default) / 19200 bps / 115200 bps
Stop Bit	1 (default) / 2
Check Bit	None (default) / Odd / Even

* YDS60-80 smart energy meter is being used along with BluePulse Series C&I ESS.
** It V2 has not included Current Transformers. For system larger than 50 kW, CT connection is required. Please select the CT that meets the following requirements:
1. The selected CT's primary rating should be larger than the maximum current passing through the system's AC busbar.
2. Maximum Current = system capacity / 230 / 3
*** Please consult KSTAR for more details.