Comply with International Standard

NEW MULTI-TRANSDUCER

DAIICHI

MULTI-TRANSDUCER

QT2-500

FEATURE

■ INTERNATIONAL STANDARD
- IEC 60688:2012 (Transducer), IEC 62053:2003 (Wh), CE Marking

■ COMMON USE FOR
- 1P2W, 1P3W, 3P3W, 3P4W
- AC110V, AC220V, AC440V (440V direct connect)
- Current input : AC5A, AC1A

■ OUTPUT SYSTEM ALL IN ONE TYPE
- 10 Analog outputs (A,V, W, var, PF, Hz)
- 2 pulse outputs & Communication output (RS-485)
- Harmonic current & voltage (RMS value 15th, Content rate, Distortion factor)

■ SETTING FUNCTION
- Setting on QT2-500 (has high contrast Organic EL Display)
  Measuring and output setting is possible by display.
- Setting by USB
  Install & retrieve setting by connect Mirco-USB to PC.
  *Setting software is downloadable on our website.

■ TEST FUNCTION & SIMPLY WIRING CONNECTION
- With faulty wiring determination support function.
- Simply connection draw in front of cover.

CE

SPECIFICATION

Items		Specifications	Remarks
Input Phase Wire		3P4W (2VT3CT, 3VT3CT) , 3P3W (2VT2CT, 2VT3CT), 1P3W, 1P2W	Selectable
Input	Rating Voltage	3P3W, 1P2W: AC110V, 220V, 440V common use 50/60Hz	Selectable
		3P3W: AC100-200V 50/60Hz	-
		3P4W: AC110/√3V, AC220/√3V, AC440/√3V common use 50/60Hz	Selectable
	Rating Current	AC5A, 1A common use 50/60Hz	Selectable
	External Reset	Max. demand reset	Input rating same as power supply
Output	Analog Output	10-analog output	-
	Pulse Output	2-pulse output by Photo Mos-Fet Relay, Normally Open contact, AC, DC125V, 70mA (resistance load, inductive load)	-
	Communication Output	Modbus RTU, Protocol A (RS-485)	Selectable
Power Supply	Range Power Consumption (VA)	AC80-264V (Rating voltage: AC100/110V 15VA, AC200/220V 18VA DC80-264V (Rating voltage: DC100/110V 9W, DC200/220V 10W) AC/DC common use	Specified
		DC20-57V (Rating voltage: DC24V, 11W, DC48V 12W)	
	Starting Current (Time Constant)	AC110V: below 5.5VA, AC220V: below 10.9A, DC110V: below 3.9A, DC220V: below 7.7A (approx.5ms)	Specified
		DC24V: below 6.3A, DC48V: below 12.6A (approx.8ms)	

Measurement Items	Class		Specifications (Phase: 1,2,3,N; Total: ∑)				Remarks
	Rating 5A	Rating 1A	3P4W	3P3W	1P3W	1P2W	
Current	0.2	0.5	I1, I2, I3, IN, Iavg	I1, I2, I3, Iavg	I1, I3, IN	I	-
Current (Power Flow)	0.2	0.5	Ipf1, Ipf2, Ipf3	Ipf1, Ipf2, Ipf3	Ipf1, Ipf3	Ipf	Polarity depends on power ∑P
Demand Current	0.2	0.5	Id1, Id2, Id3, IdN, Idavg	Id1, Id2, Id3, Idavg	Id1, Id3, IdN	Id	-
Max. Demand Current	0.2	0.5	Idmax1, Idmax2, Idmax3, IdmaxN, Idmaxavg	Idmax1, Idmax2, Idmax3, Idmaxavg	Idmax1, Idmax3, IdmaxN	Idmax	-
Voltage	0.2	0.2	U12, U23, U31, ULLavg U1N, U2N, U3N, ULNavg	U12, U23, U31, ULLavg	U1N, U3N, U13	U	-
Power	0.3	0.5	∑P, P1, P2, P3	∑P	∑P	P	-
Demand Power	0.3	0.5	∑Pd, Pd1, Pd2, Pd3	∑Pd	∑Pd	Pd	-
Max. Demand Power	0.3	0.5	∑Pdmax, Pdmax1, Pdmax2, Pdmax3	∑Pdmax	∑Pdmax	Pdmax	-
Reactive Power, Reactive Power (Power Flow) 2 Quadrants, 4 Quadrants	0.3	0.5	∑Q, Q1, Q2, Q3	∑Q	∑Q	Q	Select calculation as below Q=UIsinϕ, Q=√(S2-P2)
Apparent Power	0.3	0.5	∑S, S1, S2, S3	∑S	∑S	S	3P3W is balanced load.
Power Factor, Power Facotr (Power Flow) 2 Quadrants, 4 Quadrants	1	1.5	∑PF, PF1, PF2, PF3	∑PF	∑PF	PF	-
Frequency	0.2	0.2	f	f	f	f	-
Fundamental Wave RMS Value	Voltage: 1 Current: 1	Voltage: 1 Current: 2	HU1N, HU2N, HU3N, HI1, HI2, HI3 (HU2N: 3VT3CT)	HU12, HU23, HI1, HI2, HI3 (HI2: 2VT3CT)	HU1N, HU3N, HI1, HI3	HU, HI	-
Harmonics n-th RMS Value							n=3...15 times (odd number only)
Harmonics 5-th Conversion RMS Value							-
Distortion Factor	Voltage: 2 Current: 2	Voltage: 2 Current: 2.5					-
Harmonics n-th Content							n=3...15 times (odd number only)
Harmonics 5-th Conversion Content							-
Actice Energy	1	2	Incoming / Outgoing				-
Reactive Energy	2	2	Incoming (LAG, LEAD) / Outgoing (LAG, LEAD)				-

ORDERING INFORMATION

Please specify the specification code at below.

Type

QT2-500 -

Specification Code

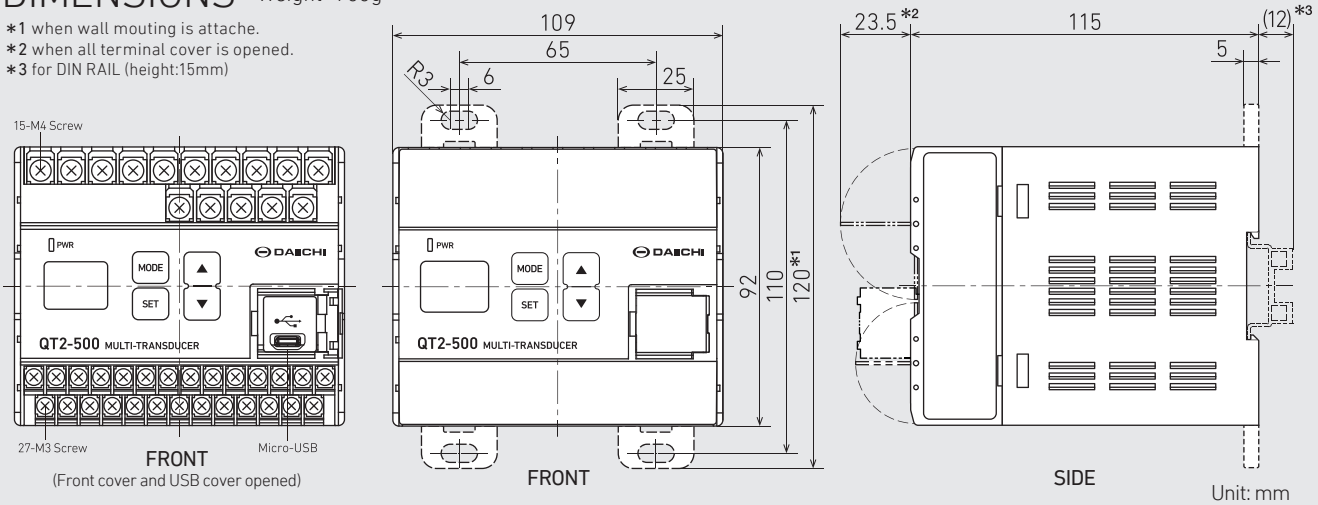
Power Supply	
1	AC 80...264V DC 80...264V For AC and DC use
2	DC 20...57V

Analog Output			
1	DC 0...5V (600 Ω ... ∞)	A	DC 0...1mA (0...10k Ω)
2	DC 0...10V (2k Ω ... ∞)	B	DC 4...20mA (0...550 Ω)
3	DC 1...5V (600 Ω ... ∞)	C	DC -1...1mA (0...10k Ω)
4	DC -5...5V (600 Ω ... ∞)	Z	Others (special specification)

DIMENSIONS

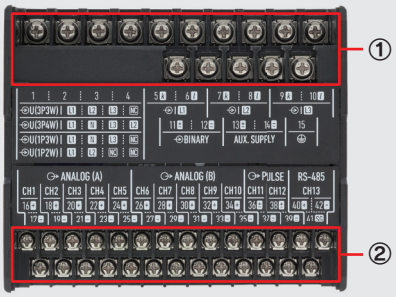
Weight : 700g

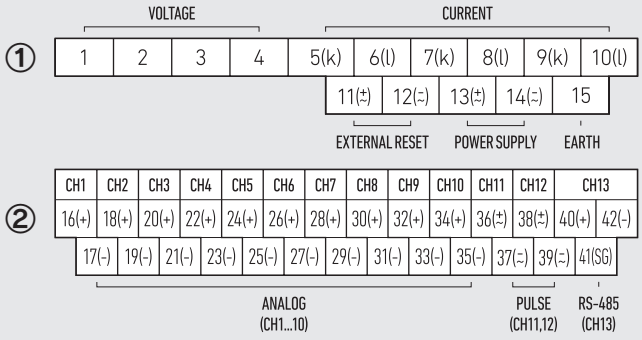
∗1 when wall mouting is attache.
∗2 when all terminal cover is opened.
∗3 for DIN RAIL (height:15mm)

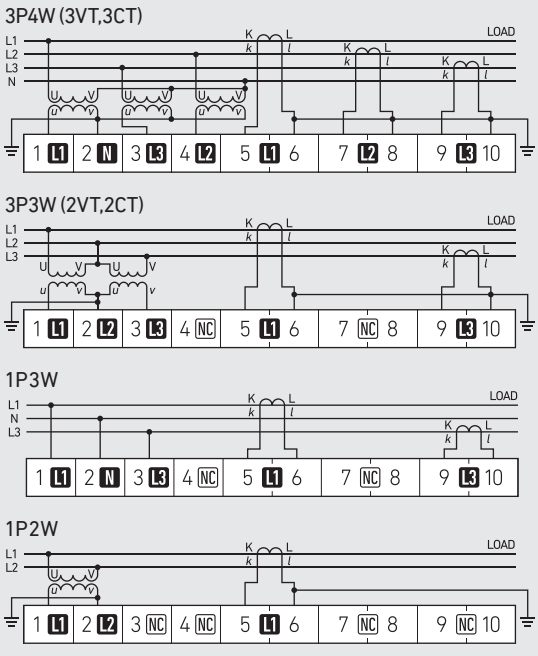


CONNECTION DIAGRAM

Photograph is when front cover opened.







SAFETY PRECAUTIONS

For ensure safety, Technical knowledge is necessary when using this product. Please refer to manual instruction for correct operation. Please check connection diagram carefully before performing connections. Please DO NOT work with live wires. There is a risk of electric shock, device malfunction or fire.

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