	Current Transducers, TAC-311DG	Current Transducers, TAC-321DG	Active/Reactive Power Transducers, Tax-312-DG/1
			
Size, DIN rail (mm):	55 x 75	55 x 75	99.7 x 75
Accuracy class:	0.5	0.5	0.5
Connection:	Single phase	Single phase	Single phase, 3-phase 3 wire balanced load, 3-phase 4-wire balanced load, 3 phase 3 wire unbalanced load, 3-phase 4 wire unbalanced load
Measuring principle:	Average measurement	Average measurement	RMS
Measuring current:	1.0...7.25A AC (≤1.2VA)	0..1A AC (≤2.0VA) 0..5A AC (≤2.3VA)	57.7..690V AC ±20% (≤0.5VA)
Measuring voltage:	-	-	0.3..5A AC (≤0.3VA)
Measuring range:	0..100% I nom	0..100% I nom	0..P/Q nom / -P/-Q nom..0..+P/+Q nom
Meas. frequency:	45..65Hz	45..65Hz	45..50..60..65 Hz
Output (0..100%):	0..5, 0..10, 0..20mA DC, 0..10V DC Span adjustment ±20% of FS output Zero adjustment for all span adjustments	0..10, 0..20mA DC Span adjustm. +10% -20% of FS output	0..1mA, 0..5mA, 0..10mA, 0..20mA, 0..1V, 0..10V
Output (20..100%):	4..20mA, Output limit <22mA Span adjustm. ±20%, Zero adjustm. ±20%	-	0.2..1mA, 1..5mA, 2..10mA, 4..20mA, 0.2..1V, 2..10V
Output (±100%):	-	-	±1mA, ±5mA, ±10mA, ±20mA, ±1V, ±10V
Auxiliary supply:	110/230/440V AC ±20% ≤2.5VA 24V DC -25/+30% ≤2W 48..110, 88..220V DC -25/+30% ≤2W	No separate auxiliary supply	57.7..690V AC ±20%, ≤3.5VA 24..220V DC 25/+30%, ≤2W

	Voltage Transducers, TAV-311DG	Voltage Transducers, TAV-321DG	
			
Size, DIN rail (mm):	55 x 75	55 x 75	
Accuracy class:	0.5	0.5	
Connection:	Single phase	Single phase	
Measuring principle:	Average measurement	Average measurement	
Measuring voltage:	57.7..500V AC (≤0.3VA) 88..132V AC (≤0.3VA)	57.7..500V AC (≤2.8VA)	
Measuring range:	0..100% U nom / 67..100% U nom	0..100% U nom	
Meas. frequency:	45..65Hz	45..65Hz	
Output (0..100%):	0..5, 0..10, 0..20mA DC, 0..10V DC Span adjustment ±20% of FS output Zero adjustment for all span adjustments	0..10, 0..20mA DC 0..10V DC Span adjustm. +10% -20% of FS output	
Output (20..100%):	4..20mA, Output limit <22mA Span adjustm, ±20%, Zero adjustm. ±20%	-	
Auxiliary supply:	110/230/440V AC ±20% ≤2.5VA 24V DC -25/+30% ≤2W 48..110, 88..220V DC -25/+30% ≤2W	No separate auxiliary supply	

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	Selectable AC-transducers, TAS-331DG	Selectable AC-transducers, TAS-311DG
		
Size, DIN rail (mm):	99.7 x 75	99.7 x 75
Accuracy class:	0.5	0.5
Connection:	Single phase and 3 phase network	Single phase
Measuring principle:	RMS	RMS
Measuring voltage:	57...690V AC <1VA	-
Measuring range:	0...P/Q - P/Q...0...P/Q	0...57V / 690V, 0...0.5A / 8A, 20...80Hz
Meas. frequency:	20...80Hz	20...80Hz
Output (0...100%):	0...1mA, 0...5mA, 0...10mA, 0..20mA 0...1V, 0...5V 0...10V	0...1mA, 0...5mA, 0...10mA, 0..20mA 0...1V, 0...5V 0...10V
Output (20...100%):	0.2...1mA, 1..5mA, 2...10mA, 4...20mA 0.2...1V, 1...5V, 2...10V	0.2...1mA, 1..5mA, 2...10mA, 4...20mA 0.2...1V, 1...5V, 2...10V
Output (±100%):	±1mA, ±5mA, ±10mA, ±20mA, ±1V, ±5V, ±10V	±1mA, ±5mA, ±10mA, ±20mA ±1V, ±5V, ±10V
Output (±10-100%):	0.1...1mA, 0.5...5mA, 1...10mA, 2...20mA 0.1...1V, 0.5...5V, 1...10V	0.1...1mA, 0.5...5mA, 1...10mA, 2...20mA 0.1...1V, 0.5...5V, 1...10V
Auxiliary supply:	57...690V AC / 24...220V DC	57...690V AC / 24...220V DC

	Selectable AC-transducers, TAS-321DG	
		
Size, DIN rail (mm):	99.7 x 75	
Accuracy class:	0.5	
Connection:	Single phase and 3 phase network	
Measuring principle:	RMS current with sign	
Measuring voltage:	-	
Measuring range:	-8/-0.5A...0.5/8A, 0...P/Q -P/Q...0...P/Q	
Meas. frequency:	20...80Hz	
Output (0...100%):	0...1mA, 0...5mA, 0...10mA, 0..20mA 0...1V, 0...5V 0...10V	
Output (20...100%):	0.2...1mA, 1..5mA, 2...10mA, 4...20mA 0.2...1V, 1...5V, 2...10V	
Output (±100%):	±1mA, ±5mA, ±10mA, ±20mA, ±1V, ±5V, ±10V	
Output (±10-100%):	0.1...1mA, 0.5...5mA, 1...10mA, 2...20mA 0.1...1V, 0.5...5V, 1...10V	
Auxiliary supply:	57...690V AC / 24...220V DC	

	Current Transducers, TAC-230DG	DC/DC Insulation Amplifiers, TDG-210DG
		
Main function:		Converting one type of DC signal into another DC signal, separating a number of earthing points, galvanic separation of current signals, conversion of measuring signal, adaption of measuring range, separation of measuring circuits, measuring on DC shunts or measuring of DC voltages.
Size, DIN rail (mm):	54 x 98.4	108 x 98.4
Accuracy class:	0.5	0.5
Connection:	Single phase	-
Measuring principle:	Average measurement	-
Measuring voltage:	-/1A or -/5A (≤2VA)	-
Current standard input:	-	Different ranges available within the limit of ±1...50mA
Voltage input:	-	Different ranges available within the limit of ±60mV...400V
Measuring range:	0..100% I nom (std) or 0..120% I nom	-
Meas. frequency:	45..65Hz (300..500Hz)	-
Output (0...100%):	-	0..1mA, 0..5mA, 0..10mA, 0..20 mA 0..1V, 0..10V
Output (20...100%):	4..20mA (2 wire connection)	0.2..1mA, 1..5mA, 2..10mA, 4..20mA 0.2..1V, 2..10V
Output (-100...0...100%):	-	±1mA, ±5mA, ±10mA, ±20mA, ±1V, 10V
Auxiliary supply, DC: Auxiliary supply, AC:	Output supply 12..30V DC according to the output load	24-48-110-220V DC (2.5W) DC/DC 57.7…440V AC ±20%, 3.5VA (45...65Hz)

	Multi Transducers, MTR-1	
		
Size (mm):	96 x 72 (Panel)	
Main function:	Measurement of voltage, current, active-, reactive- and apparent power, CosPhi, frequency and energy production (kWh)	
Connection:	Single phase, 3-phase 3 wire balanced load, 3-phase 4-wire balanced load , 3-phase 3 wire unbalanced load, 3-phase 4 wire unbalanced load	
Accuracy class:	0.5	
Output:	3 analog, one pulse or a serial output (RS485)	
Measuring current:	-/1A or -/5A	
Measuring voltage:	100/110...450V AC ±20%	
Auxiliary voltage, DC:	12…220V DC	
Auxiliary supply, AC:	85…231V AC / DC (±20% max. 6W)	

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