DEIF A/S
Transducers

	Current Transducers, TAC-311DG  TAC 31202  Current transducer	Current Transducers, TAC-321DG	
Size, DIN rail (mm):	55 × 75	55 × 75	
Accuracy class:	0.5	0.5	
Connection:	Single phase	Single phase	
Measuring principle:	Average measurement	Average measurement	
Measuring current:	1.07.25A AC (≤1.2 VA)	01A AC (≤2.0 VA) 05A AC (≤2.3 VA)	
Measuring voltage:	-	+	
Measuring range:	0100% I nom	0100% I nom	
Measuring frequency:	4565 Hz	4565 Hz	
Output (0100%):	05, 010, 020 mA DC, 010V DC Span adjustment ±20% of FS output Zero adjustment for all span adjustments	010, 020 mA DC Span adjustment +10% -20% of FS output	
Output (20100%):	420 mA, Output limit <22 mA Span adjustment ±20% Zero adjustment ±20%	-	
Output (±100%):	-	-	
Auxiliary supply:	110/230/440V AC ±20% ≤2.5 VA 24V DC -25/+30% ≤2 W 48110, 88220V DC -25/+30% ≤2 W	No separate auxiliary supply	

	Voltage Transducers, TAV-311DG	Voltage Transducers, TAV-321DG	
Size, DIN rail (mm):	55 × 75	55 × 75	
Accuracy class:	0.5	0.5	
Connection:	Single phase	Single phase	
Measuring principle:	Average measurement	Average measurement	
Measuring voltage:	57.7500V AC (≤0.3 VA) 88132V AC (≤0.3 VA)	57.7-500V AC (≤2.8 VA)	
Measuring range:	0100% U nom/67100% U nom	0-100% U nom	
Measuring frequency:	4565 Hz	4565 Hz	
Output (0-100%):	05, 010, 020 mA DC, 010V DC Span adjustment ±20% of FS output Zero adjustment for all span adjustments	010, 020 mA DC, 010V DC Span adjustment +10% -20% of FS output	
Output (20-100%):	420 mA, Output limit <22 mA Span adjustment ±20% Zero adjustment ±20%	-	
Auxiliary supply:	110/230/440V AC ±20% ≤2.5 VA 24V DC -25/+30% ≤2 W 48110, 88220V DC -25/+30% ≤2 W	No separate auxiliary supply	

Switchboard Instrumentation 4921240158S, page 1 of 3

**DEIF A/S**Transducers

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

57...690V AC/24...220V DC

Auxiliary supply:

57...690V AC/24...220V DC

	Selectable AC-transducers, TAS-321DG	Temperature Transducers, TEMAX-3
Size, DIN rail (mm):	99.7 × 75	200 × 190, base mounting
Accuracy class:	0.5	1.0
Connection:	Single phase and 3-phase network	2-wire transducer for remote monitoring of 2, 3 or 4 temperatures
Measuring principle:	RMS current with sign	Pt100 $\Omega$ sensors, 2-wire
Measuring voltage:	57690V AC <1 VA	-
Measuring range:	-8/-0.5 A0.5/8 A, 0P/Q -P/Q0P/Q	0150°C/0200°C (other ranges on request)
Measuring frequency:	2080 Hz	-
Output (0-100%):	01 mA, 05 mA, 010 mA, 020 mA 01 V, 05 V, 010 V	420 mA
Output (20-100%):	0.21 mA, 15 mA, 210 mA, 420 mA 0.21 V, 15 V, 210 V	-
Output (±100%):	±1 mA, ±5 mA, ±10 mA, ±20 mA, ±1 V, ±5 V, ±10 V	-
Output (±10-100%):	0.11 mA, 0.55 mA, 110 mA, 220 mA 0.11 V, 0.55 V, 110 V	-
Auxiliary supply:	57690V AC/24220V DC	1336V DC
Protection:	-	IP65

Switchboard Instrumentation 4921240158S, page 2 of 3

**DEIF A/S**Transducers

## 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.

on DC shunts or measuring of DC voltages.

Size, DIN rail (mm):

108 × 98.4

Accuracy class:

0.5

Connection: –

Measuring principle: –

Measuring voltage: –

Current standard input: Different ranges available within the limit of ±1-50 mA

Voltage input: Different ranges available within the limit of ±60 mV-400 V

Measuring range: –
Measuring frequency: –

Output (-100...0...100%):

Accuracy class:

Output (0...100%): 0...1 mA, 0...5 mA, 0...10 mA, 0...20 mA 0...1 V, 0...10 V

Output (20...100%): 0.2...1 mA, 1...5 mA, 2...10 mA, 4...20 mA 0.2...1 V, 2...10 V

Auxiliary supply, DC: 24...48...110...220V DC (2.5 W) DC/DC Auxiliary supply, AC: 57.7...440V AC ±20%, 3.5 VA (45...65 Hz)

## Multi-transducers, MTR-3, MTR-3F

±1 mA, ±5 mA, ±10 mA, ±20 mA, ±1 V, 10 V



0.5 and 0.3 on Modbus

Size (mm): 100 × 75 (35 mm DIN-rail)

Main function:

Measurement of voltage, current, directional current, kWh, kVAr, active-, reactive- and apparent power, CosPhi, frequency, THD, demand functions

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

Output: 0 analogue, RS485 Modbus (MTR-3-015) 2 analogue, RS485 Modbus (MTR-3F-215)

2 analogue, RS465 Modous (MTR-3F-215)
3 analogue, RS485 Modous (MTR-3-315)
4 analogue, RS485 Modous (MTR-3-415)

Measuring current:

-/1 A or -/5 A

Measuring voltage: 87...1000V AC phase-phase
Auxiliary voltage, DC: 19...300V DC

Auxiliary supply, AC: 40...276V AC

Response time: MTR-3 <200 ms, MTR-3F <50 ms, data refresh time 50 ms

Output types:

All between -20...20 mA and between -10...10 V

Example: 4...12...20 mA or 0...1 V

Switchboard Instrumentation 4921240158S, page 3 of 3