

DANISENSE

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Precision Current Transducers



Parameter	DP12IP	DP50IP-B	DT50ID
Measuring range	18 A	18 / 36 / 72 A	75 A
Nominal AC current	12 A rms	12.5 / 25 / 50 A rms	50 A rms
Nominal DC current	12 A	50 A	50 A
Overload capacity (100 ms, non-measured)	-	25 / 50 / 100 A	250 A
Nominal secondary current	50 mA	50 mA	100 mA
Primary / secondary ratio	1:250	12.5 / 25 / 50 A*	1:500
Linearity error	10 ppm	10 ppm	1.5 ppm
Initial electrical offset	-	100 ppm	100 ppm
DC total accuracy	90 ppm	110 ppm	102 ppm
Offset temperature coefficient	1 ppm/°C	1 ppm/°C	0.8 ppm/°C
Offset stability over time	1 ppm/month	1 ppm/month	0.1 ppm/month
Bandwidth (-3 dB)	1 MHz	1 MHz	2 MHz
Operating temperature	0 to +55°C	0 to +55°C	-40 to +85°C
Power supply	±15 V ±5%; +42 / -28 mA	±15 V ±5%; +42 / -28 mA	±15 V ±5%; +40 / -35 mA
Aperture diameter	NR	NR	20.7 mm
Dimensions W × H × D (approx.)	65 × 32 × 60 mm	65 × 32 × 60 mm	76 × 64.5 × 35 mm
Connection	16-pin PCB	(2 × 8 pins)	DSUB 9-pin
Calibration / test winding	None	None	None
Weight (approx.)	250 g	250 g	150 g

*DP50IP-B ratio follows source. NR = not reported; dash = unspecified. Supply currents exclude secondary current.

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Technical specifications



Parameter	DS50ID	DT100ID	DT200ID	DX200IH-CP01
Measuring range	150 A	150 A	285 A	220 A
Nominal AC current	50 A rms	100 A rms	200 A rms	140 A rms
Nominal DC current	75 A	100 A	200 A	200 A
Overload capacity (100 ms, non-measured)	1500 A	500 A	1000 A	1000 A
Nominal secondary current	150 mA	100 mA	200 mA	200 mA
Primary / secondary ratio	1:500	1:1000	1:1000	1:1000
Linearity error	1 ppm	1 ppm	1 ppm	6 ppm
Initial electrical offset	60 ppm	50 ppm	25 ppm	40 ppm
DC total accuracy	61 ppm	51 ppm	26 ppm	46 ppm
Offset temperature coefficient	0.4 ppm/°C	0.3 ppm/°C	0.2 ppm/°C	1 ppm/°C
Offset stability over time	0.4 ppm/month	0.1 ppm/month	0.1 ppm/month	0.1 ppm/month
Bandwidth (-3 dB)	1 MHz	2 MHz	2 MHz	300 MHz
Operating temperature	-40 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +60°C
Power supply	±15 V ±5%; +40 / -35 mA	±15 V ±5%; +40 / -35 mA	±15 V ±5%; +104 / -96 mA	±15 V ±5%; +104 / -96 mA
Aperture diameter	27.6 mm	27.6 mm	20.7 mm	24.2 mm
Dimensions W × H × D (approx.)	121.4 × 107.5 × 44.5 mm	76 × 64.5 × 35 mm	76 × 64.5 × 35 mm	NR
Connection	DSUB 9-pin	DSUB 9-pin	DSUB 9-pin	Samtec SSW-107-01-G-S
Calibration / test winding	Optional	None	None	Optional
Weight (approx.)	600 g	150 g	150 g	600 g

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Parameter	DS200ID	DC200IF	DS300ID	DS400ID
Measuring range	370 A	330 A	500 A	600 A
Nominal AC current	200 A rms	200 A rms	300 A rms	400 A rms
Nominal DC current	300 A	300 A	450 A	600 A
Overload capacity (100 ms, non-measured)	1500 A	1000 A	1500 A	3000 A
Nominal secondary current	600 mA	300 mA	450 mA	300 mA
Primary / secondary ratio	1:500	1:1000	1:1000	1:2000
Linearity error	1 ppm	6 ppm	1 ppm	1 ppm
Initial electrical offset	15 ppm	15 ppm	14 ppm	9 ppm
DC total accuracy	16 ppm	21 ppm	15 ppm	10 ppm
Offset temperature coefficient	0.1 ppm/°C	2 ppm/°C	0.1 ppm/°C	0.1 ppm/°C
Offset stability over time	0.1 ppm/month	10 ppm/month	0.1 ppm/month	0.1 ppm/month
Bandwidth (-3 dB)	1 MHz	200 kHz	650 kHz	300 kHz
Operating temperature	-40 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +85°C
Power supply	±15 V ±5%; +104 / -96 mA	±15 V ±5%; +35 / -35 mA	±15 V ±5%; +104 / -96 mA	±15 V ±5%; +104 / -96 mA
Aperture diameter	27.6 mm	19.65 mm	27.6 mm	27.6 mm
Dimensions W × H × D (approx.)	121.4 × 107.5 × 44.5 mm	93.5 × 61.5 × 40 mm	121.4 × 107.5 × 44.5 mm	121.4 × 107.5 × 44.5 mm
Connection	DSUB 9-pin	6.3 × 0.8 mm fastons	DSUB 9-pin	DSUB 9-pin
Calibration / test winding	Optional	None	Optional	Optional
Weight (approx.)	600 g	250 g	600 g	600 g

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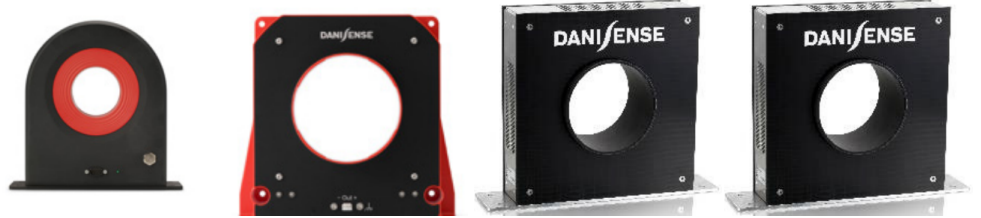


Parameter	DS600ID	DQ640ID-B	DN1000ID	DM1200ID
Measuring range	1000 A	640 A	1500 A	1800 A
Nominal AC current	600 A rms	28-452 A rms; 14 A steps	1000 A rms	1200 A rms
Nominal DC current	900 A	40-640 A; 20 A steps	1000 A	1500 A
Overload capacity (100 ms, non-measured)	4500 A	4500 A	5000 A	5000 A
Nominal secondary current	600 mA	1000 mA	667 mA	1000 mA
Primary / secondary ratio	1:1500	1:40 to 1:640; 20 A steps	1:1500	1:1500
Linearity error	1 ppm	3 ppm	1 ppm	1 ppm
Initial electrical offset	7 ppm	10 ppm	5 ppm	5 ppm
DC total accuracy	9 ppm	13 ppm	7 ppm	6 ppm
Offset temperature coefficient	0.1 ppm/°C	0.1 ppm/°C	0.1 ppm/°C	0.1 ppm/°C
Offset stability over time	0.1 ppm/month	0.1 ppm/month	0.1 ppm/month	0.1 ppm/month
Bandwidth (-3 dB)	450 kHz	300 kHz	400 kHz	400 kHz
Operating temperature	-40 to +85°C	0 to +55°C	-40 to +85°C	-40 to +85°C
Power supply	±15 V ±5%; +104 / -96 mA	±15 V ±5%; +105 / -96 mA	±15 V ±5%; ±81 mA	±15 V ±5%; +145 / -135 mA
Aperture diameter	27.6 mm	28.1 mm	41.2 mm	45 mm
Dimensions W × H × D (approx.)	121.4 × 107.5 × 44.5 mm	104 × 106 × 49 mm	132 × 112 × 44 mm	179 × 174 × 58 mm
Connection	DSUB 9-pin	DSUB 9-pin	DSUB 9-pin	DSUB 9-pin
Calibration / test winding	Optional	100 turns / 0.1 A	Optional	Optional
Weight (approx.)	600 g	600 g	800 g	1.8 kg

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Parameter	DL2000ID	MBC4000I	DR5000IM	DR10000IM
Measuring range	3000 A	7000 A	8000 A	11000 A
Nominal AC current	2000 A rms	4000 A rms	5000 A rms	7000 A rms
Nominal DC current	3000 A	4000 A	8000 A	10000 A
Overload capacity (100 ms, non-measured)	10000 A	20000 A	20000 A	20000 A
Nominal secondary current	2000 mA	6000 mA	3200 mA	4000 mA
Primary / secondary ratio	1:1500	-	1:2500	1:2500
Linearity error	1 ppm	100 ppm	1 ppm	1 ppm
Initial electrical offset	6 ppm	-	3 ppm	3 ppm
DC total accuracy	7 ppm	-	4 ppm	4 ppm
Offset temperature coefficient	0.1 ppm/°C	10 ppm*	0.1 ppm/°C	0.1 ppm/°C
Offset stability over time	0.1 ppm/month	-	0.1 ppm/month	0.1 ppm/month
Bandwidth (-3 dB)	300 kHz	100 kHz	80 kHz	80 kHz
Operating temperature	-40 to +65°C	-40 to +85°C	Head: 0 to +70°C; controller: 0 to +45°C	Head: 0 to +70°C; controller: 0 to +45°C
Power supply	±15 V ±5%; +185 / -170 mA	±15 V ±5%	100-240 V AC, 50/60 Hz; or 127-417 V DC	100-240 V AC, 50/60 Hz; or 127-417 V DC
Aperture diameter	68 mm	121 mm	150 mm	140 mm
Dimensions W × H × D (approx.)	240 × 230 × 87 mm	255 × 238 × 89 mm	Head: 420 × 325 × 122 mm; controller: 483 × 88.1 × 241 mm	Head: 420 × 325 × 122 mm; controller: 483 × 88.1 × 241 mm
Connection	DSUB 9-pin	3-pin JST S3P-VH	Banana plugs	Banana plugs
Calibration / test winding	Optional	Optional	Optional	Optional
Weight (approx.)	5.7 kg	4.1 kg	Head: 17 kg; controller: 6 kg	Head: 19 kg; controller: 6 kg

*MBC4000I offset temperature coefficient: 10 ppm as printed; no per-degree unit is stated in the source.

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Residual Current Monitors

Technical specifications



Parameter	RCM	SRCM
Model	RCMH0701B+	SRCMH0701B+
Measuring range	0-2 A	0-2 A
Measurement class	Type B/B+; AC and DC	Type B/B+; AC and DC
Frequency capability	Up to 100 kHz	Up to 100 kHz
TRMS output	4-20 mA DC	4-20 mA DC
Automatic setup	Frequency range and integration time	Frequency range and integration time
TRMS in frequency ranges	Yes	Yes
Residual-current scope	No	Yes
Residual-current FFT	No	Yes
Remote settings: RC limit, frequency range, integration time	No	Yes
TRMS log / relay-status log / data export	No	Yes
Aperture diameter	70 mm	70 mm