

### Technical Data\*

#### Charge Amplifier Type 5044A

Number of channels		2
Measuring range	pC	$\pm 100 \dots \pm 49'950$
Error	%	$< \pm 1$
Sensitivity (adjustable to three significant digits)	pC/M.U.	1 ... 99,9
Scale (in 1,2,5 steps)	M.U./V	1 ... 50
Drift (0 ... 60 °C)	pC/s	$< \pm 0,2$
(25 °C)	pC/s	$< \pm 0,05$
Reset-Long jump	pC	$< \pm 1$
Time constant, Long	s	$> 100'000$
Output voltage	V	$\pm 10$
Output current	mA	$< 2$
Output resistance	$\Omega$	10
Zero error (Reset)	mV	$\pm 15$
Output noise (0,1 Hz, 0 ... 1 MHz) max./typ.	mV <sub>pp</sub>	$< 15 / < 5$
Frequency range (at 20 V <sub>pp</sub> )	Hz	$\approx 0 \dots > 45'000$
Offset selectable with jumper, Output voltage $\pm 10$ V is retained	V	$-8,0 \pm 1 \%$
Voltage between Sensor GND and output/ supply GND	V	$< \pm 50$

#### Drift Compensation (activ)

Circuit on (Drco)

Offset error	mV	$\pm 20$
Error at Repetition frequency 5 Hz (600 1/min. Four stroke engine)	%	$< 1$

#### Power Supply

Supply voltage	V DC	$\pm 15$
Supply current	mA	$< \pm 80$

#### General Data

Operating temperature range	°C	0 ... 60
min./max. temperature	°C	-10/60
Vibration resistance (20 Hz ... 2000 Hz, duration 16 min.)	gp	10
Shock resistance (1 ms)	g	200
Dimensions (Frontpanel)	mm	128,7 x 50,6

\* In all Kistler documents, the decimal sign is a comma on the line (ISO 31-0: 1992).

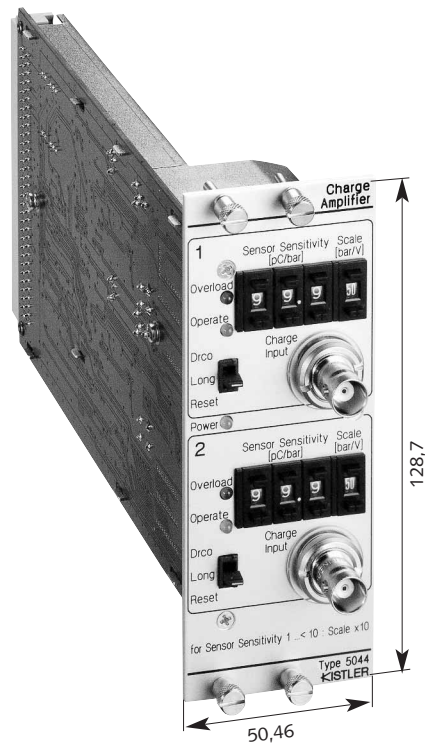


Fig. 2: Charge amplifier Type 5044A