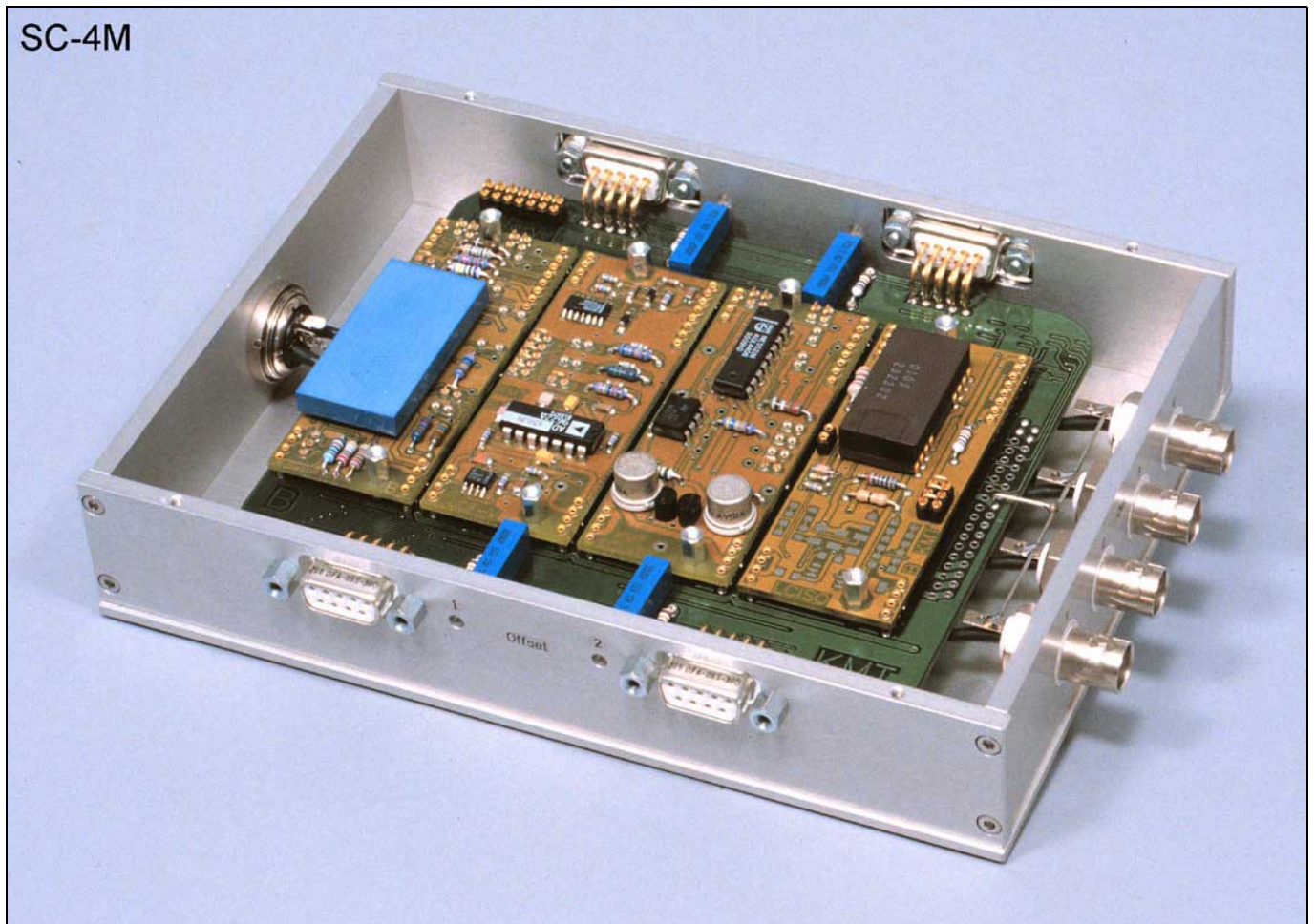
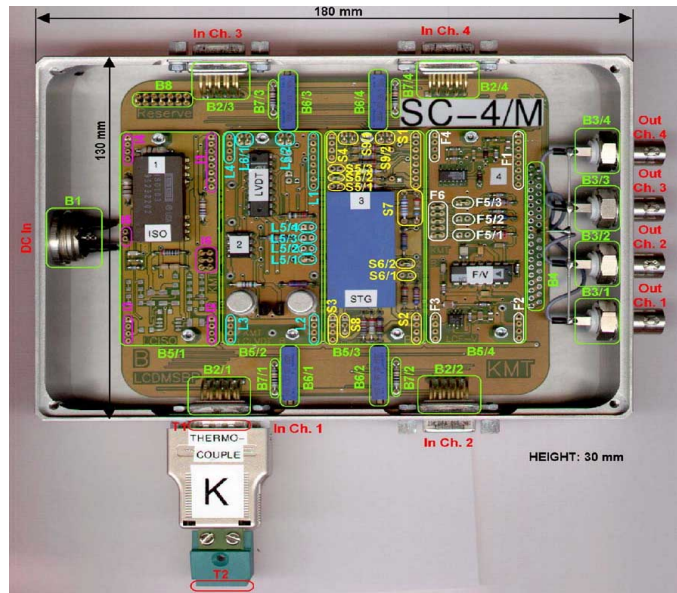
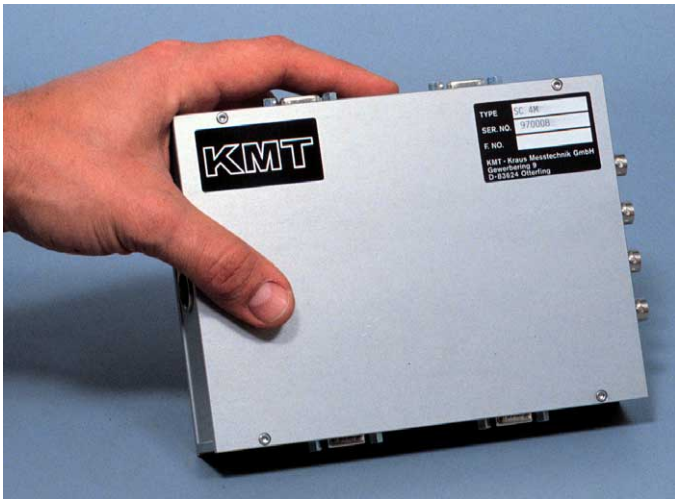


SC-4/M

4 channel low cost signal conditioning unit, mixed installation practicable with modules such as Straingauges, LVDT, ICP. Thermo couples, F/V, Filter ...



- Signal conditioning for STG, LVDT, ACC, F/V converter, Thermo couples, Filter, ICP
- Easy handling
- Mixed installation practicable, 1 up to 4 modules
- Jumper selectable gain for STG, ICP and LVDT
- STG excitation 4 or 8 V
- Full-, half- or quarter-bridges
- Power input of 9-18 or 18-32 VDC
- Size 130x180x35 mm
- Weight 900g



Basic housing with motherboard for max. 4 signal conditioning modules

Signal conditioning modules for:

To measure:	Module	Description	Characteristics
Force, pressure, strain, torsion, material stress	STG	Strain gauges	<ul style="list-style-type: none"> Full, half, quarter bridges in 2- and 3-wire technique (120Ω, 350Ω, 1kΩ) Settable gain (2, 10, 100, 1000) Settable bridge supply (4V, 8V) Auto-zeroing Additive 5kHz fixed filter (2pol. Butterworth)
Distance	LVDT	Inductive distance sensor	<ul style="list-style-type: none"> Settable gain (1, 2, 5, 10) Sensor supply 5kHz, ±5V Auto-zeroing
Frequency, speed by pulse frequency	F/V	Frequency-to-voltage converter	<ul style="list-style-type: none"> Settable maximum frequency (500Hz, 2.5kHz, 10kHz) Minimum frequency 40Hz Signal amplitude 0.3-10V Square, sine and triangle wave forms 10Hz output filter (2pol. Butterworth)
Acceleration, oscillation, vibrations, acoustic	ACC	Acceleration sensor based on STG	<ul style="list-style-type: none"> all common sensors
	CAP	Capacitance accelerometer	<ul style="list-style-type: none"> Measuring ranges ±3g, ±10g, ±50g Shock resistance 10.000g Frequency ranges 0-160Hz (±3g), 0-350Hz(±10g), 0-550Hz (±50g)
	ICP	Piezoelectric accelerometer and microphones	<ul style="list-style-type: none"> Excitation current 1mA, 2mA, 4mA, 20mA (optional others) Excitation voltage 30V Gains 0.5, 1, 2, 4, 8, 16, 32 (optional others) Signal bandwidth 5-16000Hz
Temperature	THERMO	Thermo wires Type J, K (T)	<ul style="list-style-type: none"> Measuring range from -20°C up to +500°C Gain 10mV/°C Internal cold junction compensation Optional galvanic isolation with integrated ISO module
	Pt100	Thermo resistors from Pt100 / Pt1000	<ul style="list-style-type: none"> Measuring range from -20°C up to +500°C (best linear performance from 0°C to 100°C) Gain 7.7mV/°C Excitations 0.25, 0.5, 0.75, 1mA for Pt100 Optional galvanic isolation with integrated ISO module
Galvanic isolated voltage	ISO	Isolation amplifier	<ul style="list-style-type: none"> Additive isolated sensor excitation Input ±10V Optional 4Hz fixed filter (4pol. Butterworth)
Current	CUR	Current-to-voltage converter	<ul style="list-style-type: none"> Input current ±25mA Input impedance 100Ω Optional bridge excitation ±15V
Voltage	VOLT	No signal conditioning	<ul style="list-style-type: none"> Input ±2.5V, ±5V (default), ±10V, ±15V, ±20V, ±25V Auto-zeroing up to ±250mV Input resistance >100kΩ (depends on range) Optional bridge excitation ±15V
	FILTER	Optional filter for all modules	<ul style="list-style-type: none"> 8th order elliptical or linear phase frequency response, more than 2000 cut off frequencies from 10Hz to 7,5kHz available (reciprocal scaling)

Technical specifications are subject to change without notice