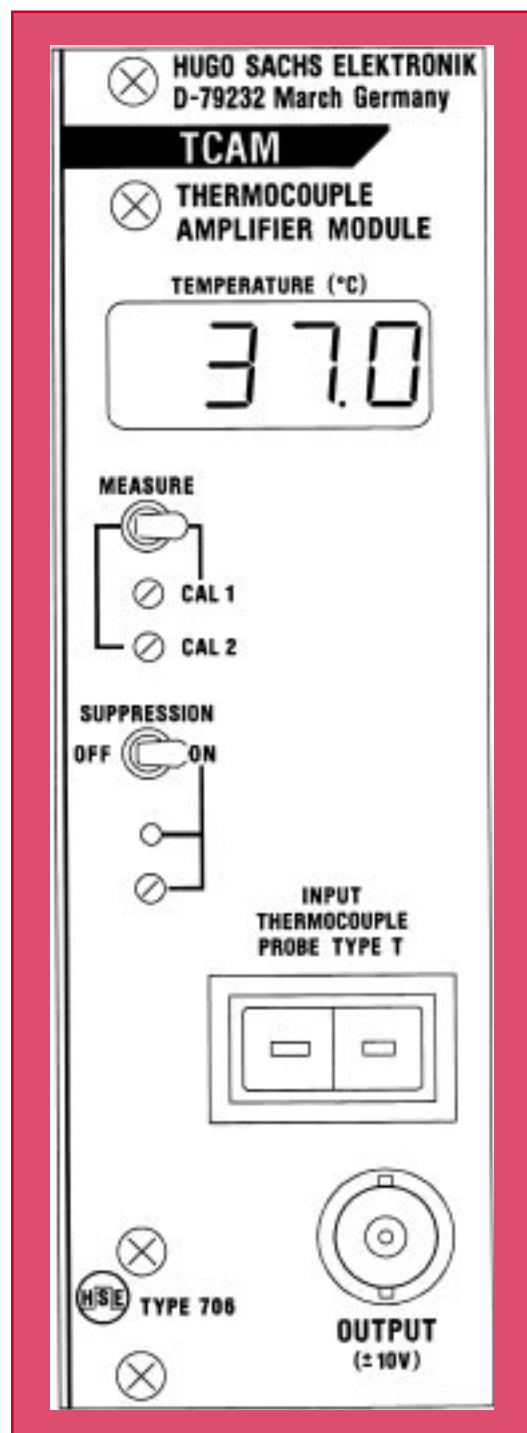


HSE-Harvard* Thermocouple Amplifier Module (TCAM)

- Temperature measurement module using thermocouple (Type T, copper-constantan) probes
- Range 0 to 100°C
- Free adjustable electrical calibration values
- Floating input

The measurement of temperature on small structures requires probes of correspondingly small dimensions. With the PLUGSYS Thermocouple Amplifier Module TCAM Type 706 as amplifier and a suitable thermocouple, there are virtually no limitations. Thermocouples (Type T, copper-constantan) are available in a wide range of forms. From the thinnest wires with a diameter of 0.23 mm (IT-23) to the largest rectal probe with 4 mm probe diameter (RET-1); a whole range of probes in different forms and dimensions can be supplied. The temperature probes are directly interchangeable and do not require individual calibration.

The range of the TCAM module covers 0°C to 100°C. In the physiological temperature range (30 to 45°C) the basic accuracy is 0.1°C; outside this range the accuracy is 0.2°C. The built-in digital display has a resolution of 0.1°C. The TCAM module has an analogue output for connection to a recorder or data acquisition system. The recorder or acquisition system can easily be calibrated through a build-in simulation device with two adjustable temperature values. In addition, there is a zero suppression facility for recorders which permits recording temperatures within a limited range (e.g., 36 to 38°C) at a high resolution.



Specifications

Input	Floating differential input, max. isolation 1500 Vrms, transient protection to ANSI/IEEE C37.90. 1-1989, input protection to 240 VAC continuous
Input Resistance	50 MΩ
Input Connector	Thermoelement connector blue, Cu/CuNi
Range	0 to 100°C
Resolution	0.1°C
Sensitivity	0.1°C in physiologic range between 30° and 45°C; 0.2°C outside this range
Response Time	0.2 sec (90% span)
Display	3-1/2 digit LED display
Analog Output	For simultaneous recording, using BNC connector on front panel (±10 V, output impedance 100 Ω); output voltage is also available on PLUGSYS bus system; 100 mV per 1°C = 1 V per 10°C
Calibration	2-point calibration with two freely selectable temperatures
Power Supply	+5 V/450 mA supplied via PLUGSYS system bus
Dimensions, H x W x D	128.7 x 40.4 x 220 mm (5.1 x 1.6 x 8.7 in)
PLUGSYS Width*	2 slot units
Connector	DIN 41612, 64-pin VG
Weight	0.4 kg (0.9 lbs)

Catalog No.	Product
CGS 8405.71	TCAM Thermocouple Amplifier Module
CGS 8406.71	Cabo Ext-6 da extensão para thermocouples