



eCCT Hot Wire Bridge

The eCCT is a full-fledged hot-wire bridge for dynamic temperature measurements in air flows which operates according to the constant current thermometry method.

The device is calibrated in the temperature range from 0°C to +150°C. The permitted temperature range for the shaft and cable is limited between -40°C and +80°C. The probe tip can be exposed to temperatures up to 250°C.

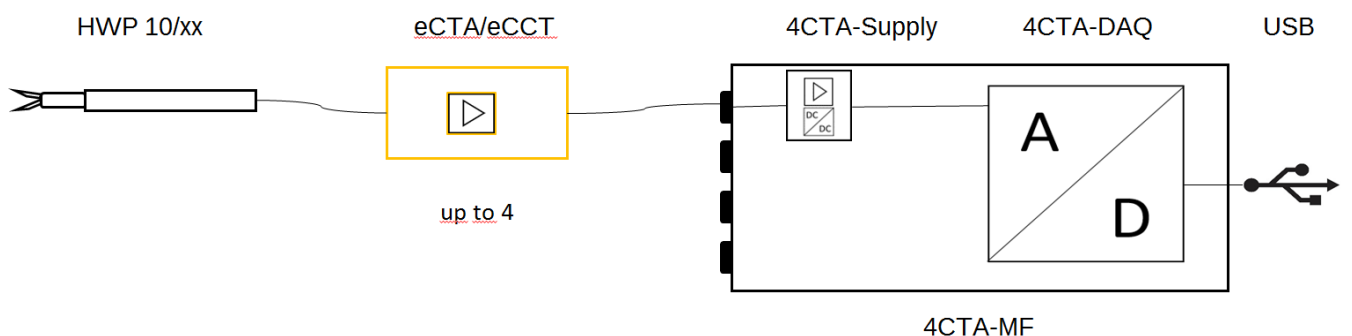
The eCCT is preconfigured for the hotwire probes HWP10/xx. Therefore, additional calibrations and adjustments are not necessary - the bridge is ready for use immediately. Due to precise calibration, the probe cable cannot be extended. The power supply and data acquisition are established by the 4CTA main unit which needs at least one option of 4CTA-Supply. This option needs to be ordered separately. Alternatively, the bridge can be operated using an sDAQ data acquisition system.



FEATURES

- Dynamic temperature measurement in air flows
- Measurement accuracy: 1° C (temperature), up to 400 Hz (frequency)
- For the operation of HWP10/xx hot wire probes

COMPONENTS





ELECTRICAL CONNECTION

Suitable hot wire probes	HWP 10/xx Series
Ambient conditions for hot wire probes	Fluid: Air, other non corrosive gases possible no particles, no pollution, no explosive gases
	Temperature range: -40° C... 80° C complete probe -40° C... 250° C probe tip
	Humidity: Non condensing
Accuracy	Temperature: 1° C Frequency: up to 400 Hz
Connectors	Power supply/signal: Binder 712, 7 pin Hotwire: Binder 711, 2 pin
Ambient conditions for electronics	Temperature: 5° C...40° C Humidity: Non condensing
Dimensions	Case (h x w x d): 112 mm x 27 mm x 17 mm
Additional components required for usage	4CTA with 4CTA supply or sDAQ HWP 10/xx hot wire probe