

### eCTA

#### Hot-wire Bridge

- Dynamic measurements of flow velocities
- Velocity range: 0.1 – 50 m/s in air, higher velocities and other gases possible
- Measurement accuracy:  
0.1 m/s + 0.5% FS ( $v < 20$  m/s) / 1% FS ( $20 < v < 50$  m/s)
- Different hot-wire probes are available
- Immediate use

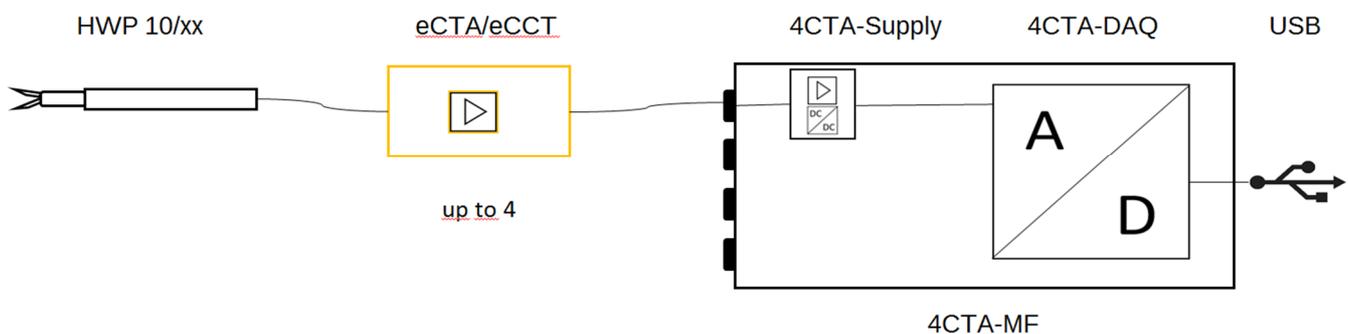


### General Description

The *external CTA* is a full featured hot-wire bridge for the dynamic measurement of flow velocities in air. The calibrated velocity range in air reaches up to 50 m/s, higher velocities are possible. Due to the measurement principle the device is especially suited for small flow velocities. The application with different gases is in general possible but requires a special calibration.

The *eCTA* is designed to operate hotwire probes of the series *HWP1 0/xx*, therefore no adjustments need to be made. The *eCTA* is conceived to work in combination with the data acquisition systems *sDAQ* and *4CTA*.

### Components



## Technical Specifications

Connections	
Supply / signal	Binder 712, 7 pin
Hot-wire probe	Binder 711, 2 pin
Measurement accuracy	
Velocity 0...20 m/s	0.1 m/s + 0.5 % FS (typ.)
Velocity 20...50 m/s	1 % FS (typ.)
Ambient conditions for hot-wire probe	
Fluid	Air, different non-corrosive gases are possible but must be calibrated separately no particles, no air pollution
Temperature	10... 50°C within factory calibration, -10...70°C possible
Humidity	Non-condensing
Ambient conditions for electronics	
Temperature	5° C...40° C
Humidity	Non-condensing
Dimensions	
Case	112 mm x 28 mm x 21 mm
Cable length	1.8 m, different lengths on request
Suitable hot-wire probes	
HWP 10/xx	

