

Measuring Transducer for Air Velocity

Flexible and customer-specific



m/s

°C

m³/h

l/min

ft³/min

Vane probe and thermal probes connectable

Description/ Features

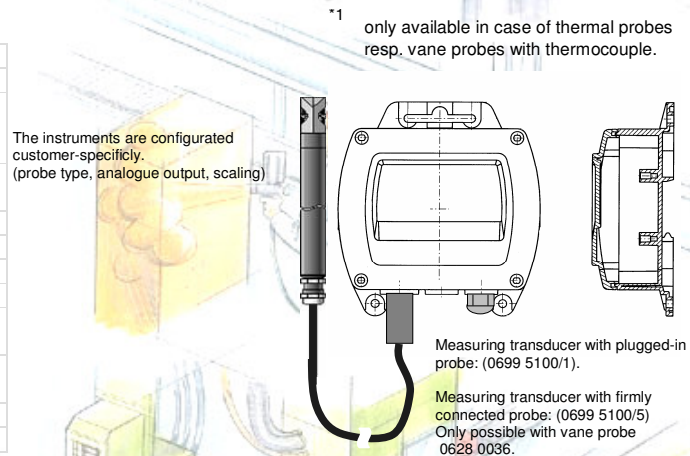
The flexible velocity measuring transducer

The velocity measuring transducer 0699 5100 can be used with the air velocity probes of the Testo Reference Class (vane probes, hot ball probes and hot wire probes). Furthermore this instrument offers a very high flexibility, especially in choosing the measuring ranges and the application range. Therefore it is optimally suitable e. g. for test and measuring stands. The air velocity as well as the air volume velocity in German and American parameters is available, therefore a consumption measurement can be carried out. Variable norm signals 0(4) to 20mA or 0 to 1(10)V offer the ideal interface for a connection to superior control systems. Two display versions, among others also with switching outputs and a RS485 interface are available as an option. Furthermore, output channels¹ for velocity and temperature with a common reference ground are completing the spectrum. Therefore, the measuring transducer represents the ideal solution for your velocity- (HVAC) applications.

Technical data measuring transducer

Supply voltage:	24VDC (15 to 30VDC)
Current consumption:	50 to 15mA (depending on connected probe)
Analogue outputs:	Two outputs (temperature optional) With common ground Defined according to NAMUR NE43
Analogue interface:	0(4) to 20mA; 0 to 1V; 0 to 10V pre-configured customer-specificly
Galvanic separation:	Yes (supply to analogue output)
Resolution:	~5µA (12 Bit PWM)
Accuracy:	0,02mA / 1,5mV resp. 15mV
Drift analogue outputs:	0,3µA/K
Housing:	ABS, grey RAL 7035 130 x 105 (140) x 52mm
Protection type:	IP65 (with firmly connected probe) IP54 (with plugged-in probe)
EMV:	According to guideline 89/336 EWG
Ambient temperature:	-0 to 60°C

All data are related to an ambient temperature of approx. 22°C



The probes which can be connected

Testo supplies the suitable velocity probes for each measuring task.

Description	Picture	Meas. range/Meas. uncertainty	Part no.
12mm vane probe, pluggable to telescope or handle ²		<ul style="list-style-type: none"> +0,6 to +20m/s; +/- (0,2m/s +/- 1%o.av.) Operating temperature: -30 to 40°C 	0635 9443
16mm vane probe, with TC type „K“, pluggable to telescope or handle ²		<ul style="list-style-type: none"> +0,4 to +60m/s; +/- (0,2m/s +/- 1%o.av.) -30 to 40°C; Class 2 	0635 9540
60mm vane probe, pluggable to telescope or handle ²		<ul style="list-style-type: none"> +0,25 to +20m/s; +/- (0,1m/s +/- 1,5%o.av.) Operating temperature: 0 to 60°C 	0635 9440
100mm vane probe, pluggable to telescope or handle ²		<ul style="list-style-type: none"> +0,1 to +15m/s; +/- (0,1m/s +/- 1,5%o.av.) Operating temperature: 0 to 60°C 	0635 9340
16mm mounting vane probe with lead of 3m		<ul style="list-style-type: none"> +0,6 to +20m/s; +/- (0,2m/s +/- 1%o.av.) Operating temperature: -30 to 140°C 	0628 0036
Mounting hot ball probe with lead of 2m		<ul style="list-style-type: none"> 0 to +10m/s; +/- (0,03m/s +/- 5%o.av.) -20 to 70°C; NTC +/- 0,6°C 	0628 0035
Hot ball probe with telescope and lead with 2m		<ul style="list-style-type: none"> 0 to +10m/s; +/- (0,03m/s +/- 5%o.av.) -20 to 70°C; NTC +/- 0,6°C 	0635 1049
Hot wire probe with telescope and lead with 2m		<ul style="list-style-type: none"> 0 to +20m/s; +/- (0,03m/s +/- 4%o.av.) -20 to 70°C; NTC +/- 0,6°C 	0635 1041

² in connection with handle 0430 3545, telescope 0430 0941 or plug-in head lead 0430 0044