

**Measuring probes**  
for Class 200 - 300 portable instruments



**Wireless communication**

instrument/ PC  
instrument / probe



**Smart-plus system**

Wireless or wired probes automatically  
recognized when connected to the instrument.

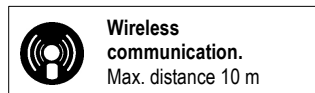
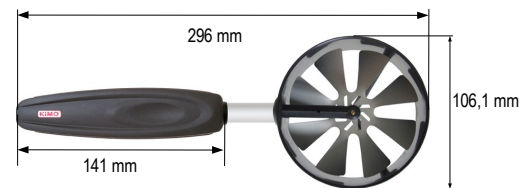
■ Vane Ø 100 mm		Measuring range	Accuracy*	Res.	t <sub>63</sub>	Ref.
Air velocity : Hall effect sensor Airflow : calculated Temperature : Pt100 class A. ABS handle (from -40 to +85°C). Detection of rotation direction.	<b>Air velocity</b>	from 0.25 to 3 m/s from 3.1 to 35 m/s	± 3% of reading ± 0,1 m/s ± 1% of reading ± 0.3m/s	0.01 m/s 0.1 m/s	1 sec.	HE 100
	<b>Airflow</b>	from 0 to 99999 m <sup>3</sup> /h	± 3% of reading ± 0.03*area (cm <sup>2</sup> )	1 m <sup>3</sup> /h		
	<b>Temperature</b>	from -20 to +80°C	± 0.4% of reading ± 0.3°C	0.1°C		



Secured mini-Din connector.



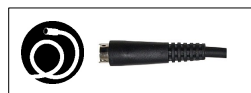
Retractable cable lg. 450 mm,  
up to 2,4 m.



**Wireless communication.**  
Max. distance 10 m



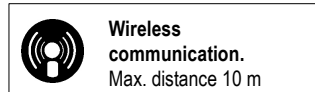
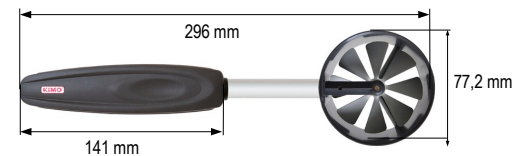
■ Vane Ø 70 mm		Measuring range	Accuracy*	Res.	t <sub>63</sub>	Ref.
Air velocity : Hall effect sensor Airflow : calculated Temperature : Pt100 class A. ABS handle (from -40 to +85°C). Detection of rotation direction.	<b>Air velocity</b>	de 0,3 à 3 m/s de 3,1 à 35 m/s	± 3% lecture ± 0.1 m/s ± 1% lecture ± 0.3 m/s	0.1 m/s	0.8 sec.	HE 70
	<b>Airflow</b>	from 0 to 99999 m <sup>3</sup> /h	± 3% of reading ± 0.03*area (cm <sup>2</sup> )	1 m <sup>3</sup> /h		
	<b>Temperature</b>	from -20 to +80°C	± 0.4% of reading ± 0.3°C	0.1°C		



Secured mini-Din connector.





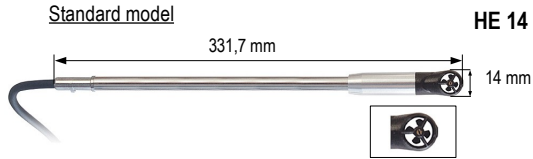
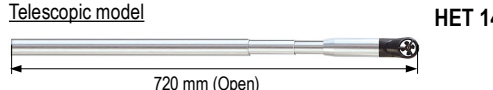
Retractable cable lg. 450 mm,  
up to 2,4 m.



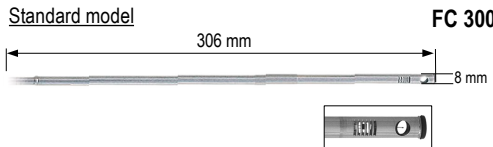
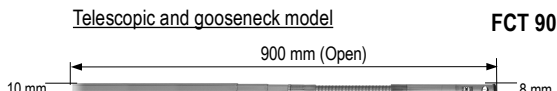




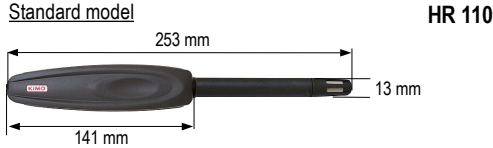
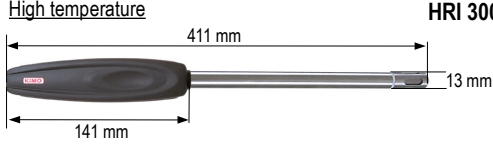


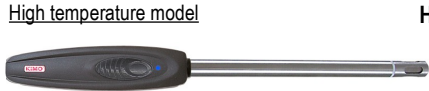
**Wireless communication.**  
Max. distance 10 m



\*All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurements carried out in the same conditions, or carried out with required compensation.

■ Vane Ø 14 mm		Measuring range	Accuracy*	Res.	t <sub>63</sub>	Ref.
Air velocity : proximity sensor Airflow : calculated Temperature : Pt100 class A. Straight (HE14) or telescopic (HET14) handle	<b>Air velocity</b>	from 0,8 to 3 m/s from 3,1 to 25 m/s	±3% reading ±0,1m/s ±1% reading ±0,3m/s	0.1 m/s	0.6 sec.	
	<b>Airflow</b>	from 0 to 99999 m <sup>3</sup> /h	± 3% of reading ± 0.03*area (cm <sup>2</sup> )	1 m <sup>3</sup> /h		
	<b>Temperature</b>	from -20 to +80°C	± 0.4% of reading ± 0.3°C	0.1°C	5 sec. for V <sub>air</sub> =1m/s	
						<b>HE 14</b>
						<b>HET 14</b>



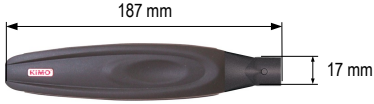
■ Hotwire		Measuring range	Accuracy*	Res.	t <sub>63</sub>	Ref.
Air velocity : NTC regulated in temperature Airflow : calculated Temperature : Pt100 class 1/3 DIN Straight (FC300) or telescopic and gooseneck (FC900) handle	<b>Air velocity</b>	from 0.15 to 1 m/s from 0.15 to 3 m/s from 3.1 to 30 m/s	± 3% of reading ± 0.03 m/s** ± 3% of reading ± 0.03 m/s ± 3% of reading ± 0.1 m/s	0.01 m/s 0.01 m/s 0.1 m/s	0.6 sec.	
	<b>Airflow</b>	from 0 to 99999 m <sup>3</sup> /h	± 3% of reading ± 0.03*area (cm <sup>2</sup> )	1 m <sup>3</sup> /h		
	<b>Temperature</b>	from -20 to +80°C	± 0.3% of reading ± 0.25°C	0.1°C	5 sec. for V <sub>air</sub> =1m/s	
						<b>FC 300</b>
						<b>FCT 900</b>

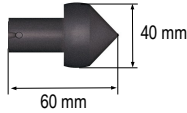
■ Hygrometry probe		Measuring range	Accuracy*	Res.	t <sub>63</sub>	Ref.
Hygrometry : capacitive sensor Temperature : Pt100 class 1/3 DIN <b>Standard model</b> ABS Sheath and handle (from -40 to +85°C). <b>High temperature model</b> ABS handle (from -40 to +85°C) and inox sheath.	<b>Relative humidity</b>	from 3 to 98%RH	Accuracy*** (Repeatability, linearity, hysteresis) : ±1,5%RH (from 15°C to 25°C) Factory calibration uncertainty : ±0,88 %RH Temperature dependence : ±0.04 x (T-20) %RH (if T<15°C or T>25°C)	0.1%RH	<10sec. (from 10%RH to 80%RH; V <sub>air</sub> =2m/s)	
	<b>Absolute humidity</b>	Function of humidity and temperature measuring ranges				
	<b>Enthalpy</b>					
						<b>HR 110</b>
						<b>HRI 300</b>
						<b>HR 110 RF</b>
						<b>HRI 300 RF</b>



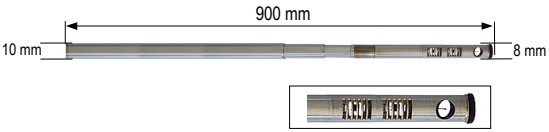
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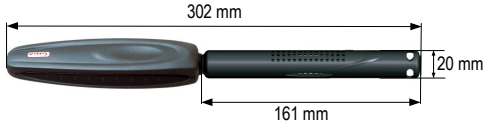
\*\* Optional specific adjustment and calibration



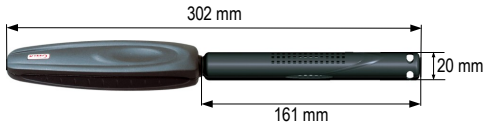
\*\*\*As per NFX 15-113 and the Charter 2000/2001 HYGROMETERS, GAL (Guaranteed Accuracy Limit) which has been calculated with a coverage factor value of 2 is ±2.88%RH between 18 and 28°C on the measuring range from 5 to 95%RH. Sensor drift is less than 1%RH/year.

■ Optical tachometry		Measuring range	Accuracy*	Res.	t <sub>63</sub>	Ref.
Optical tachometry probe. ABS handle (from -40 to +85°C).		from 60 to 10000 RPM from 10001 to 60000 RPM	± 0.3% of reading ± 1 RPM ± 30 RPM	1 RPM	2 sec.	TOP
<b>Probe exclusively compatible with class 300 instruments</b>						
	Secured mini-Din connector.	Retractable cable lg. 450 mm, up to 2,4 m.				



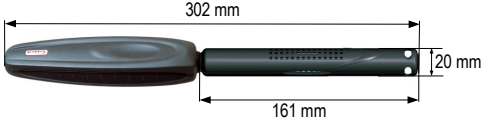
■ Contact adaptor		Measuring range	Accuracy*	Res.	t <sub>63</sub>	Ref.
Contact adaptor for optical probe		from 30 to 20000 RPM	± 1% of reading ± 1 RPM	1 RPM	2 sec.	ETC
<b>Probe exclusively compatible with class 300 instruments</b>						



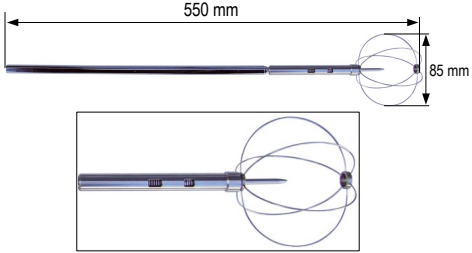
■ Multifunction probe		Measuring range	Accuracy*	Res.	t <sub>63</sub>	Ref.
Velocity : NTC regulated in temperature Hygrometry : capacif sensor Temperature : Pt100 class 1/3 DIN Telescopic handle	<b>Velocity</b>	from 0.15 to 3 m/s from 3.1 to 30 m/s	± 3% of reading ± 0.03 m/s ± 3% of reading ± 0.1 m/s	0.01 m/s 0.1 m/s	0,6 sec.	SVTH
	<b>Relative humidity</b>	from 5 to 95%RH	<b>Accuracy** (Repeatability, linearity, hysteresis) : ±1,8%RH (from 15°C to 25°C)</b> <b>Factory calibration uncertainty : ±0,88 %RH</b> <b>Temperature dependence : ±0.04 x (T-20) %RH (if T&lt;15°C or T&gt;25°C)</b>	0.1%RH		
<b>Probe exclusively compatible with class 300 instruments</b>	<b>Temperature</b>	from -20 to +80°C	± 0.3% of reading ± 0.25°C	0.1°C	5 sec. for V <sub>air</sub> =1m/s	
						
	Secured mini-Din connector.	Straight cable lg. 1.70 m.				



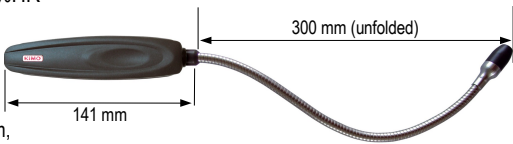
■ CO / temperature probe		Measuring range	Accuracy*	Res.	t <sub>63</sub>	Ref.
CO : Electrochemical sensor Temperature : Pt100 class 1/3 DIN ABS handle (from -40 to +85°C)	<b>CO</b>	from 0 to 200 ppm from 200 to 500 ppm	± 3 ppm ± 3% of reading	1 ppm	10 sec.	SCOT
	<b>Temperature</b>	from -20 to +80°C	± 0.3% of reading ± 0.25°C	0.1°C		
						
	Secured mini-Din connector.	Retractable cable lg. 450 mm, up to 2,4 m.				

■ CO <sub>2</sub> / temperature probe		Measuring range	Accuracy*	Res.	t <sub>63</sub>	Ref.
CO <sub>2</sub> : NDIR sensor (Non dispersive- infrared sensor NDIR) Temperature : Pt100 class 1/3 DIN ABS handle (from -40 to +85°C)	<b>CO<sub>2</sub></b>	from 0 to 5000 ppm	± 3% of reading or ± 50 ppm	1 ppm	30 sec.	SC02T
	<b>Temperature</b>	from -20 to +80°C	± 0.3% of reading ± 0.25°C	0.1°C		
						
	Secured mini-Din connector.	Retractable cable lg. 450 mm, up to 2,4 m.				



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\*\*As per NFX 15-113 and the Charter 2000/2001 HYGROMETERS, GAL (Guaranteed Accuracy Limit) which has been calculated with a coverage factor value of 2 is ±2.88%RH between 18 and 28°C on the measuring range from 5 to 95%RH. Sensor drift is less than 1%RH/year.

■ CO <sub>2</sub> / temp./hygro. probe		Measuring range	Accuracy*	Res.	t <sub>63</sub>	Ref.
CO <sub>2</sub> : NDIR sensor (Non dispersive- infrared sensor NDIR) Hygrometry : capacitive sensor Temperature : Pt100 class 1/3 DIN ABS handle (from -40 to +85°C)	CO <sub>2</sub>	from 0 to 5000 ppm	±3% of reading or ±50ppm	1 ppm	30 sec.	SCO2TH
	Relative humidity	from 5 to 95%RH	Accuracy** (Repeatability, linearity, hysteresis) : ±1,8%RH (from 15°C to 25°C) Factory calibration uncertainty : ±0,88 %RH Temperature dependence : ±0.04 x (T-20) %RH (if T<15°C or T>25°C)	0.1%RH		
	Temperature	from -20 to +80°C	± 0.3% of reading ± 0.25°C	0.1°C		
 Secured mini-Din connector.  Retractable cable lg. 450 mm, up to 2,4 m. 						

■ Omnidirectional probe		Measuring range	Accuracy*	Res.	t <sub>63</sub>	Ref.
Velocity : NTC regulated in temperature Hygrometry : capacif sensor Temperature : Pt100 class 1/3 DIN  Possibility to put the sensing element inside the probe. Sonde supplied with tripod. Only for AQ 200 et AMI 300	Velocity	from 0.00 to 5.00 m/s	± 3% of reading ± 0.05 m/s	0.01 m/s	0.6 sec.	SFCO
	Relative humidity	from 5 to 95%RH	Accuracy** (Repeatability, linearity, hysteresis) : ±1,8%RH (from 15°C to 25°C) Factory calibration uncertainty : ±0,88 %RH Temperature dependence : ±0.04 x (T-20) %RH (if T<15°C or T>25°C)	0.1%RH		
	Temperature	from -20 to +80°C	± 0.3% of reading ± 0.25°C	0.1°C	5 sec. for V <sub>air</sub> =1m/s	
 Secured mini-Din connector.  Straight cable lg. 1.70 m. 						

■ Gas leak detection probe		Measuring range	Accuracy*	Res.	t <sub>63</sub>	Réf.
Gas : Electrochemical sensor. Flexible probe	Hydrocarbon and CH <sub>4</sub>	From 1 to 10 000 ppm	±20% of full scale at 20°C at 65%HR ± 5%HR	1 ppm	10 sec.	GAS
	GPL	From 0 to 1800 ppm	±20% of full scale at 20°C at 65%HR ± 5%HR	1 ppm		
  Retractable cable lg. 450 mm, up to 2,4 m. 						

## ■ Extensions

■ General use		Réf.
Telescopic extension compatible with all measuring probes equipped with a handle		RTS
■ For Hotwire		Réf.
Straight extension for hotwire probe		RD 300

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