

## GREISINGER handheld instruments: Pt100/Pt1000 resistance- thermometers



	GMH 3750	GMH 3710	GTH 175/Pt	GMH 175
Sensor / Sensor connection	Pt100 4-wire (Ni100), MiniDin - jack	Pt100 4-wire, MiniDin - jack	Pt1000, permanently connected	Pt1000 2-wire Phone jack 3,5mm
Measuring range	-199.99 .. +199.99 °C -200.0...850.0 °C	-199.99 .. +199.99 °C -200.0...850.0 °C	-199.9 .. +199.9 °C	-199.9 .. +199.9 °C
Serial interface	X	X	-	-
Analogue output	0-1V, configurable	0-1V, configurable	-	-
Alarm	X	-	-	-
Logger	X	-	-	-
Power consumption	1 mA	1 mA	1.5 mA	1.5 mA
Auto Power Off	X	X	X	X
Adjustment	Offset / Scale	Offset / Scale	Poti	Poti

# GREISINGER handheld instruments: Thermocouple-Thermometers



	GMH 3250	GMH 3230	GMH 3210	GTH1170	GTH1150
suitable thermocouples	Type J, K, N, S, T	Type J, K, N, S, T	Type J, K, N, S, T	Type K	Type K
Channels	2	2	1	1	1
Meas. range	Type K	-199.9 .. +999.9 °C -220 .. +1370 °C	-199.9 .. +999.9 °C -220 .. +1370 °C	-65.0 .. +300.0 °C -220 .. +1372 °C	
	Type S	S: -50 .. 1750 °C	S: -50 .. 1750 °C	-50 .. 1768 °C	
Serial interface	X	X	X	-	-
Analogue output	-	-	0-1V, configurable	-	-
Alarm	X	-	-	-	-
Logger	X	-	-	-	-
Power consumption	1.6 mA	1.6 mA	0.3 mA	0.15 mA	0.4 mA
Auto Power Off	X	X	X	X	X
Adjustment	Offset / Scale	Offset / Scale	Offset / Scale	Offset / Scale	Potentiometer

# GREISINGER Handheld instruments: Relative Air Humidity and Temperature

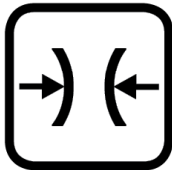


	GMH 3350	GMH 3330
measuring probes	TFS 100 E rel. air humidity/temperature STS 020 flow air STS 005 flow water Thermocouple - probes K (surface)	
Measuring range	0.0 ... 100.0 % rel.H. (TFS 100 E) -40.0 ... 120.0 °C (TFS 100 E) -80.0 ... 250.0 °C (thermocouple Type K) 0.55 ... 20.00 m/sec (STS 020 air) 0.05 ... 5.00 m/sec (STS 005 Water)	
Calculated units	dewpoint temperature, dewpoint distance, Enthalpy	
Serial interface	X	X
Alarm	X	-
Logger	X	-
Auto Power Off	X	X
Power consumption	ca. 2.5 mA	ca. 2.5 mA
Auto-Power-Off	X	X
Adjustment	Manually: Offset and Scale Autom.: with humidity reference cells	

STS 020  
TFS 0100 E

	GFTB 100	GFTH 200	GFTH 95
Integrated:	rel. air humidity temperature atmospheric pressure	Integrated: rel. air humidity temperature External: temperature Pt1000	Integrated: rel. air humidity temperature
Measuring range	0.0 ... 100.0 %rel. H. 10.0 ... 1100.0 mbar -25.0 ... 70.0 °C	0.0 ... 100.0 %rel. HF. -25.0 ... 70.0 °C	10.0 ... 95.0 %rel. H. -20.0 ... 70.0 °C
Calculated units	dewpoint temperature wetbulb temperature atmospheric humidity Absolute humidity	dewpoint temperature	-
Serial interface	(optional)	-	-
Alarm	-	-	-
Logger	-	-	-
Auto Power Off	X	X	-
Power consumption	ca. 75 µA at 1 meas./sec 20 µA at 1 measuring/min	ca. 0.1 mA at 1 meas./sec 9 µA at 1 measuring/min	ca. 0.1 mA
Auto-Power-Off	X	X	-
Adjustment			

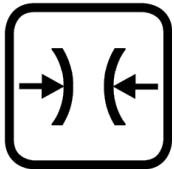
# GREISINGER handheld pressure instruments with integrated sensor



	GMH 3181-xx	GMH 3161-xx	GDH 200-07 and -13	GPB 3300	GDH 200-14	GTD 1100
Measuring ranges	31x1-01: -1.00 .. 25.00 mbar diff. 31x1-07: -10.0 .. 350.0 mbar diff.	31x1-13: -100 .. 2000 mbar diff. 31x1-12: 0 .. 1300 mbar abs.	-07: 0.00 .. 19.99 mbar diff 0.0 .. 199.9 mbar diff -13: 00.0 .. 199.9 mbar diff 0.0 .. 1999 mbar diff	300.0 ... 1100.0 mbar abs. 225.0 ... 825.0 mmHg abs.	0.000 ... 11.000 bar abs. 0 ... 11000 mbar abs. 0 ... 8250 mmHg abs. 0 ... 160.00 PSI abs	300,0 .. 1300,0 mbar abs -10,0 .. 50.0°C -500 ..9000m
Units	Depending on range, choice between: mbar/bar/Pa/kPa/Mpa/mmHg/PSI		choice: mbar/mmHg PSI for -13, -07: additionally Pa	choice: mbar/mmHg	choice: mbar/mmHg/PSI	choice: mbar/mmHg m/ft, °C/°F
Media	Air, non corrosive/ionising gases					
Meas. frequency	4/s, 1000/s	4/s	1/s	1/s	1/s	1/s
Serial interface	X	X	-	-	-	-
Analogue output	X	-	-	-	-	-
Alarm	X	-	-	-	-	-
Logger	X	-	-	-	-	-
Auto Power Off	X	X	X	-	X	X
Power consumption	0.6mA (4/s)	0.6mA	ca. 0.25 mA	-	ca. 0.04 mA	Ca 50 µA
Adjustment	Manually setting of offset - & scale	Manually setting of offset - & scale	Automatic offset - & manually setting of scale	Manually setting of offset & scale	Manually setting of offset - & scale	Manually setting of offset - scale

# GREISINGER handheld instruments for interchangeable sensors

## Suitable Sensors



	GMH 3156	GMH 3151	GMH 3111
Channels	2	1	1
Probes	Interchangeable probes „GMSD“ for different ranges		
Units	Depending on measuring range, choice of: mbar/bar/Pa/kPa/Mpa/mmHg/PSI		
Meas. frequency	4/s, 1000/s	4/s, 1000/s	4/s
Serial interface	X	X	X
Analogue output	X	X	-
Alarm	X	X	-
Logger	X	X	-
Auto Power Off	X	X	X
Power consumption (with one sensor)	0.9mA (4/s) 4.2mA (1000/s)	0.8 mA (4/s) 3.8 mA (1000/s)	0.6mA (4/s)
Adjustment	Manually setting of offset - & scale		

Standard sensors „GMSD“	Stainless steel sensors GMSD...E“
Air, non corrosive / ionising gases	Air + aggressive gases and water + aggressive fluids
Ranges rel. from -1.999... 2.500 mbar to -1.00... +10.00 bar	Ranges rel. from 0 ... 350.0 mbar to 0.00 ... 35.00 bar
Ranges abs. from 0 ... 1300 mbar to 0.00 ... +7.00 bar	Ranges abs. from 0 ... 1000 mbar to 0.0 ... 400.0 bar