Table Top Housing for Pressure Chamber 8700/8710

GROUP 8	TEST & CALIBRATION
NO.	**8777.0000**
VERSION / DATE / NAME	04 / 04.2016 / Zi

Table top housing with built-in of a data logger COMBILOG 1022 and other components complete with internal 12 VDC power supply unit and 4 mm plugs for 12 VDC output at the front plate.

APPLICATION

The reference sensor is located inside the pressure chamber to allow the correct measurement of the inside condition. The reference sensor is connected with the COMBILOG 1022 via the RS232 socket at the back plate.

The sensors on test are to be connected at the data logger using the 4 mm plugs at the front plate. Sensors on test could have different data outputs, such like frequency, current or voltage.

For the provision of test protocols it is necessary to measure the room temperature and humidity.
A combined temperature/humidity sensor can be connected at the 8-pole plug at the back plate.

All data are stored at the data logger and can be transferred to a PC with a relevant software, like COMGRAPH, via the interfaces at the back plate.

TECHNICAL DATA

TABLE TOP HOUSING

Supply voltage:	230 V, 50 Hz other on request
Power supply:	with ON/OFF switch
Pressure tube connections:	Ø 5 mm
Plugs at the back plate:	Ethernet, USB, 8-pole T/H plug

Dimensions:	530 x 190 x 350 mm (Width x Height x Depth)
Weight:	8.5 kg

The 12 VDC power supply unit is self-secured, no fuse necessary.

For further details refer to the manual of the data logger: 1022.2000

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REFERENCE SENSOR

Barometric pressure range 500 ... 1100 hPa	
Linearity*	±0.05 hPa
Hysteresis*	±0.03 hPa
Repeatability*	±0.03 hPa
Calibration uncertainty**	±0.07 hPa
Accuracy at +20 °C (+68 °F) ***	±0.10 hPa

Temperature dependence**	
500 ... 1100 hPa	±0.1 hPa

Total accuracy -40 ... +60 °C (-40 ... +140 °F)	
500 ... 1100 hPa	±0.15 hPa

Long-term stability	
500 ... 1100 hPa	±0.1 hPa/year

* Defined as ±2 standard deviation limits of endpoint non-linearity, hysteresis or repeatability error.

** Defined as ±2 standard deviation limits of inaccuracy of the working standard including traceability to NIST.

*** Defined as the root sum of the squares (RSS) of endpoint non-linearity, hysteresis error, repeatability error and calibration uncertainty at room temperature.

**** Defined as ±2 standard deviation limits of temperature dependence over the operating temperature range.

OTHER REFERENCE SENSORS ON REQUEST

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