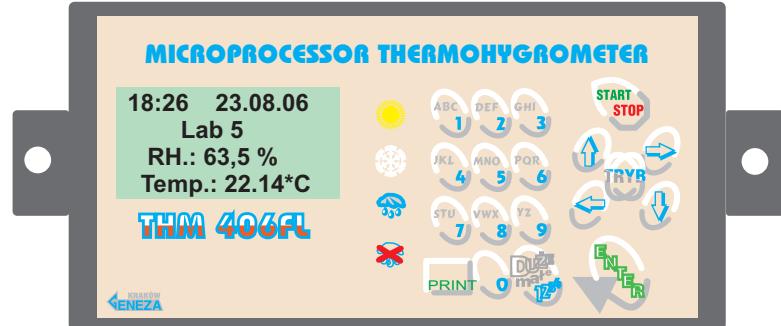
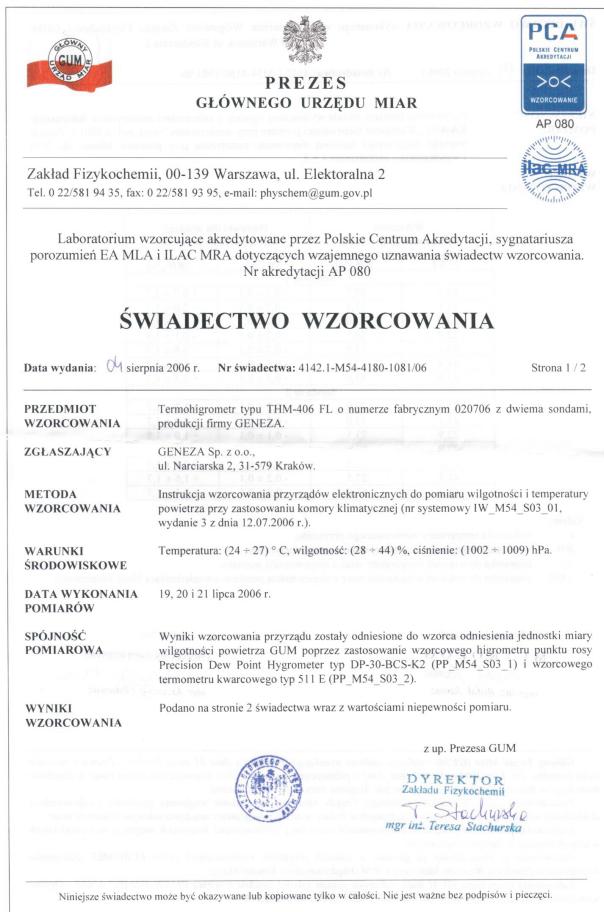


## Microprocessor based ThermoHygrometer Model THM 406 FL



### Description.

Microprocessor based THERMOHYGROMETER model THM-406 FL is a modern device designed to measure temperature and relative humidity even in **four different places** and is also able to record measure result in its internal, nonvolatile memory or print them on a portable printer PORTI S30/40. Through RS-232 or RS-485 socket it can communicate with a PC computer. Rs-485 socket allows to connect up to 4 units of THM - 406 FL to only one computer PC by a triple wire line. Internal, nonvolatile, memory enable to record up to 50 000 records at intervals ranging from 1 minute to 99 hours. Results recorded in the internal memory might be transferred to the computer PC directly connected to the THM-406 FL's RS-232 output. In the field operation, a **portable, battery powered printer can be directly connected to the THM-406 FL thermohygrometer**. The user can select chart or graphs printout using a thermohygrometer's keyboard. This sophisticated thermohygrometer covers temperature range from **-25°C to +60°C** with resolution 0.02°C and humidity range from 5%RH to 95% RH with resolution 0.5%RH. Higher accuracies, grater than typical electronic thermohygrometers are achieved through a unique linearising technique.

Application of the internal microprocessor ensure a minimal measuring error and a large alphanumeric easy-to read LCD display enable simply read-out results. Nonvolatile memory stores setup conditions (RS-232, log intervals, probes calibration etc) and also user's settings selected from the keyboard. The meter also includes a real time clock which shows time, day month and year. The meter accepts up to **four integrated** temperature and humidity probes with very long cables (up to 50 meters each). The THM-406 FL features a quick disconnect panel input for all probes. The model THM-406 FL also contains visual alarms. Simultaneous alarm points for temperature and humidity are user selectable. When the current condition exceed any of the preset values, special icons on the front panel lit.

Easy routine maintance and small size provides an excellent comfort of recording and wide application in scientific research, enviroment measurement, food industry and many others.

### Technical data:

**Input :** ..... four or two integrated humidity and temperature probes

**Distance between probes and meter:** ..... up to 50 meters

**Temperature measuring and logging range :** ..... **-25°C do +60°C**

**Relative humidity measuring and logging range:** ..... 5 do 98%.

**Resolution of current temperature and humidity:** ..... 0,02°C/0,5%RH

**Accuracy of temperature measurement:** ..... ± 0,15 % of the range

**Accuracy of relative humidity measurements:** ..... ±3%RH @ temperature of calibration point

**Log interval:** ..... from 1 minute to 99 hours (programmable through the meter's keyboard)

**Connection to PORTI S30/40 printer :** ..... RS-232 port on the THM-406 FL housing

**Communication with computer PC :** ..... RS - 232 ( distance to computer PC up to 4 meters)

..... industrial RS - 485 - special converter necessary - (distance from computer PC up to 100 meters)

**Temperature and humidity display:** ..... 4 x 16 alphanumeric LCD display

**Device status display:** ..... 4 x 16 alphanumeric LCD display

**Switching of measuring channels:** ..... through meter's keyboard

**Data logging (programmable by the user):**

1.storing in the nonvolatile, internal memory (up to 12 500 logs for each channel) and further transferable to the PC and/or to the **portable printer** with the time and date stamp as a chart or graphs

2.On-line output to the PC through RS-232 serial interface or RS-485 industrial interface for further analysis, storage and hard copy printouts

**Power:** ..... 9 V dc or 230 V ac through adapter

**Housing:** ..... black plastic adapted to be hanged on a wall

**Dimensions:** ..... L200 x H95 x D37 mm