Digital handheld service meter



Probe communicator S-535

- Reading analog probe outputs in V or %RH / °C
- Reading digital data from RS-232 / RS-485 probe with ASCII output
- Changing settings Input and output range
- Two point calibration of Relative Humidity input
- One point calibration of Temperature input
- Auto-detection of probe type
- Auto-detection of range settings
- Reading the serial number and software version from probe
- Auto power-off



The S-535 is a versatile digital handheld meter which is designed for the new μ Controller based humidity and temperature sensors from Rense Instruments. It is capable of displaying the data of humidity probes as well as programming and calibrating them. This gives the user the possibility to change the probes parameters and settings especially when in the field.

The new line of sensors consist basically of two designs:

The first series work just like normal analog transmitters however with the difference that instead of adjustment potentiometers they can be digitally calibrated and programmed by the S-535.

The second series have a digital output (RS-232 / RS-485). The same S-535 handles these sensors as well.

Although every probe with analog outputs can be read, the full potential of the S-535 can only be experienced when a digital probe is connected. The LCD displays the information on two lines with 16 characters each. Access to the probe's parameters is given via a menu which is clear and intuitive.

When a digitally controlled probe is connected to the S-535, it adapts immediately to the probes settings, adjusting the readout always to the right scale, regardless of the input/output range of the probe. When a probe with digital output (RS232) is connected, the temperature and all RH-related data can be read at a glance, while it is shown on the two lines in one readout cycle.





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Specifications S-535

Menu choices:

•	Menu 1	Probe information:
		probe type and serial no
•	Menu 2	Readout
		%RH + Temperature in Volts or %RH/°C
•	Menu 3	Power off
•	Menu 4	Range settings (depends on probe type)
		Input ranges -40+60 / -20+80 / 0+50 / 0+100 °C.
		Output ranges 01 / 02 / 05 / 010 Volt.
		Choice of RH derived : Abs Hum [gr/ m ³] , Dewpoint [°C], RH[%].
		Choice of Sensor type.
•	Menu 5	Calibration
		2 point calibration of RH, 1point calibration of Temperature

Input :

A/D conversion Digital probe Analog probe μC based Analog probe Ranges:	24 bits HT-737 (Ø 19mm) (auto detect) HT-761 (Ø12mm), HT-773 (Ø19mm) ,, Only readout %RH = 0100% Temperature = -40 + 60°C = -20 + 80°C = 0 + 50°C = 0 + 50°C = 0 + 100°C Dewpoint = -40 + 80°C (calculated) Absolute Humidity 0.1 262 g/m ³
Readout resolution Volt scale Readout resolution RH-scale Readout resolution Temp-scale	Absolute Humidity 0.1 262 g/m ² 1mV 0.01%RH 0.01 °C
Operating Temperature range Display Dimensions W x H x D Weight Supply	050°C 16 characters x 2 lines Character height 4.4mm 80 x 150 x 28 mm 180 g Battery 9V (low bat indication @ 6.3V)

Warranty

All products manufactured by RENSE Instruments are warranted to be defect free in material and workmanship for a period of one year after delivery.



DEVELOPMENT AND MANUFACTURING OF ELECTRONIC INSTRUMENTS

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