

The **INSTRU 12253** is a powerful temperature and humidity datalogger that delivers an exceptionally ease of use approach along with numerous useful features.

The **INSTRU 12253 PLUS** is a unique system based on the **INSTRU 12253**.

The **INSTRU 12253 PLUS** allows user to communicate with up to 200 loggers and receive all real-time measurements on one computer.

The **INSTRU 12253 PLUS** incorporates wireless communication between the loggers and the computer.



## CHARACTERISTICS

### INSTRU 12253

- Large digital display for convenient viewing
- External sensors enable additional data collection
- View up to 30 days min/max history on small keypad
- Water and dust proof (IP65)
- Built in quality sensor for temperature and humidity
- Infrared communication to a PC or portable printer
- Recording sample rate selected by user
- Records months of data - up to 16000 samples
- Rugged exterior can handle any conditions

### INSTRU 12253 PLUS

- Capable of receiving data from loggers located up to 300m away from the computer
- License free wireless communications
- Handles data from up to 200 loggers
- Very easy, color coded, user interface reporting each logger status
- Programmable threshold for each logger that will activate an alarm indicator when crossed
- Cost effective solution for multiple datalogging



## SPECIFICATIONS

INSTRU 12253	
<b>Outputs</b>	Two digit 7-segment LCD IRDA interface to HP-printer and host computer RS232 serial communication at 19,200 bps
<b>Memory</b>	16,000 recording samples
<b>Power Supply</b>	Internal Lithium Battery - 3.6V 1.2AH 1/2AA Battery Life - approximately two years, replaceable (May vary when connecting external sensor)
<b>Sampling Rate</b>	User defined: from every 10 second to every 2 hours
<b>Dimensions</b>	Round - 72 mm diameter Thickness - 22.9 mm
<b>Weight</b>	55 gr.

Parameter	Sensor	Resolution	Accuracy	Range
<b>Temperature</b>	Int	0.5°C	±1°C	-30°C to 50°C
<b>Humidity</b>	Int	0.5%	±3%	0 to 100%
<b>Voltage</b>	Ext	0,05v	±3%	0 to 10V
<b>Current</b>	Ext	±0,1 mA	±3%	4 to 20mA
<b>Temperature</b>	Ext	2°C	±2% Reading	-50 to 100°C
<b>Ph</b>	Ext	0,116 ph	±2%	0 to 14pH
<b>Contact</b>	Ext	-----	-----	open / closed

INSTRU 12253 PLUS - TX	
<b>Output</b>	Audible alarm
<b>Serial Communication channels</b>	RS232 at 19.2Kbps USB at 1.5Mbps
<b>Connectors</b>	4-pin flat connection to the <b>INSTRU 12253</b> 4-pin flat connection to any <b>INSTRU 12253</b> external sensor Screw terminal for External DC supply
<b>Power supply</b>	Internal: lithium battery, 3.6V External: 6-30V, minimum 300mA
<b>RF transmission</b>	EMC conformant to ETS 300-683 Type approved to ETS 300-220 Usable range to 300m (75m indoors) 418 (UK) & 433.92MHz (Euro) versions 1mW on 418 MHz, 10mW on 433.92MHz 2nd harmonic <-60dBc 16cm wipe antenna

INSTRU 12253 PLUS - RX	
<b>Range</b>	Usable range to 300m (75m indoors)
<b>Serial Communication</b>	One RS232 communication port to the computer
<b>Power supply</b>	Internal lithium battery 3.6V, 1.2AH, _ AA External AC/DC 6V adapter
<b>RF receiver</b>	Red LED indicating RF signal Green LED indicating valid data being received Type approved to ETS 300-220

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