EXTECH

Quick Start

42280A Temperature & Humidity Datalogger

Introduction

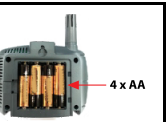
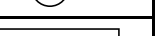
The 42280A is a portable, battery operated instrument that monitors, displays, and logs Temperature and Relative Humidity (RH). The 42280A can monitor environmental conditions in a variety of residential and commercial storage and in-transit locations.

The 42280A logs up to 48,000 readings for later PC transfer and generates comprehensive reports that include detailed statistical analyses with high/low alarms.

Download the User Manual from the support site for detailed instructions and additional language translations:

https://support.flir.com

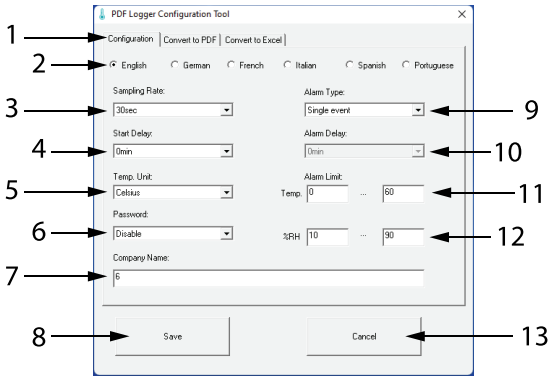
Quick Steps

Install four (4) AA batteries in the rear compartment. An optional 9 V adapter is available.	
Short press the power button to switch on the 42280A.	
Temperature is shown on the top display row, RH on middle row, and date/time on bottom. Short press the DP button to show the Dew Point on middle row. Short press the MAX/MIN button to step through the highest (MX), lowest (MN), and current readings. Long press the MAX/MIN button to reset the MAX/MIN memories.	
Configure the logger using a PC or the 42280A keypad, per the instructions in the following sections, and then return to this section.	
Long press the START/STOP button to start logging. The green recording LED and the **REC** display icon will flash. If you set a Start Delay in the configuration process, the **REC** icon will not flash until the delay time elapses.	
Place the logger in the area to be monitored.	
Long press the START/STOP button to stop logging. The recording LED and **REC** display icon will switch off.	

Connect to the PC to generate log reports. Open the supplied application, click the PDF or Excel tab, and follow the on-screen prompts.	
Short press the power button to switch off the 42280A.	

Logger Configuration (PC)

With 42280A power on, connect to a PC using the supplied USB cable. The PC recognizes the 42280A as an external drive. The drive contains the '*PDF Logger Configuration Tool*' software. Open the program and configure the logger as explained below.



	Parameter	Description
1	Tabs	Click 'Configuration' to start. After logging, click the PDF and Excel tabs to create reports.
2	Language	Set the report language.
3	Sampling Rate	Rate at which readings are logged.
4	Start Delay	Set a timer to delay logging start.
5	Units	Select °C or °F temperature units.
6	Password	Set a 16 character (max.) password.

7	Company Name	Add a 20 character (max,) text string to reports.
8	SAVE	Click SAVE to complete the configuration.
9	Alarm Types	Select Single (sin), Cumulative (acc), or No Alarm (dis). See User Manual for alarm details.
10	Alarm Delay	Set an alarm trigger delay.
11	Temp. Alarm Limit	Set temperature alarm threshold.
12	RH Alarm Limit	Set RH alarm threshold.
13	Cancel	Click to abort the configuration.

Close the application when done, eject the 42280A (right-click the drive icon on the PC and select 'Eject'), and physically disconnect the logger from the PC. Continue with the Quick Steps section above.

Logger Configuration (Keypad)

- Short press the SET button to access the configuration mode.
- Use the up/down arrow buttons to step through the parameters.
- Short press the SET button to open a parameter.
- Use the up/down arrow buttons to change a setting.
- Short press SET to confirm a setting.
- Long press SET to exit the configuration. A parameter code (P1 to P8) must be displayed in order to exit.

Note: If the display shows '*dlF*', when you press SET, this indicates that a log file is in meter memory and must be downloaded before the keypad configuration can be performed.

Parameter	Display	Description
Sampling Rate (P1)		Set the logging sample rate from 30 seconds to 120 minutes. The middle row shows the setting, and the bottom row shows **S** for seconds or **M** for minutes.
Start Delay (P2)		Set the start delay time from 0 minutes to 24 hours. The middle row shows the setting, and the bottom row shows **S** for seconds, **M** for minutes, or **H** for hours.
Alarm Types (P3)		Select single (sin), cumulative (acc), or no alarm (dis) on the middle row. Refer to User Manual.
Alarm Delay (P4)		Set alarm delay timer. Adjustable from 5 to 120 minutes. See User Manual.
Alarm Beeper (P5)		The alarm beeper defaults to the ON state. Set to OFF to save power.
Alarm Threshold (P6)		Set the threshold for temperature and RH alarms. See User Manual.
Units Setting (P7)		Select °C or °F temperature units.
Real Time Clock (P8)		Logger real time clock. Set the Year (Y), Month (M), Day (D), Hours (H), Minutes (M), Seconds (S) on the bottom row.

After configuration continue with the Quick Steps section above.

Basic Specifications

	Range	Resolution	Accuracy
Temperature measurements	-22 to 158°F (-30 to 70°C)*	0.1°	± 0.9°F (0.5°C)
RH measurements	0.1 to 99.9%	0.1%	± 3% (10 to 90%)
Dew Point calculation	32 to 122°F (0 to 50°C)	0.1°	n/a
Meter power	4 x AA batteries (supplied). Optional 9 V adapter.		
Ambient conditions	For operation and storage: -4 to 158°F (-20 to 70°C)* < 90% RH, non-condensing.		

*Note that the temperature sensor can measure down to -22°F (–30°C) but the meter should not be used below -4°F (–20°C).

Two-Year Warranty

FLIR Systems, Inc. warrants this Extech brand instrument *to be free of defects in parts and workmanship for* ***two years*** *from date of shipment (a six-month limited warranty applies to sensors and cables). To view the full warranty text please visit: http://www.extech.com/support/warranties.*

Customer Support

Customer Support Telephone List:
https://support.flir.com/contact

Calibration, Repair, and Returns e-mail: repair@extech.com

Technical Support: https://support.flir.com

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Website
http://www.flir.com

Customer support
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