TECHNICAL NOTES

Screen Guide

Intell-i-Watch screen guide

Screens shown are examples with example values; the screens on your Watch depend on the model and the sensors connected.

Set it up your way

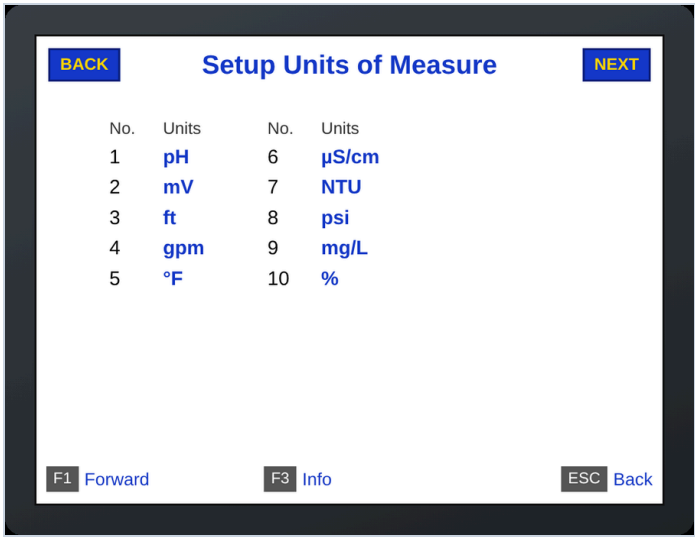


Guided setup

Setup starts with a welcome screen that leads you through configuring your Intell-i-Watch one step at a time.

- Units, sensor names, normal ranges and alarms are set up screen by screen, in order.
- The Watch is set up for your sensors and your process, not a one-size-fits-all template.
- Anything you set can be changed later, right at the Watch, as your process changes.

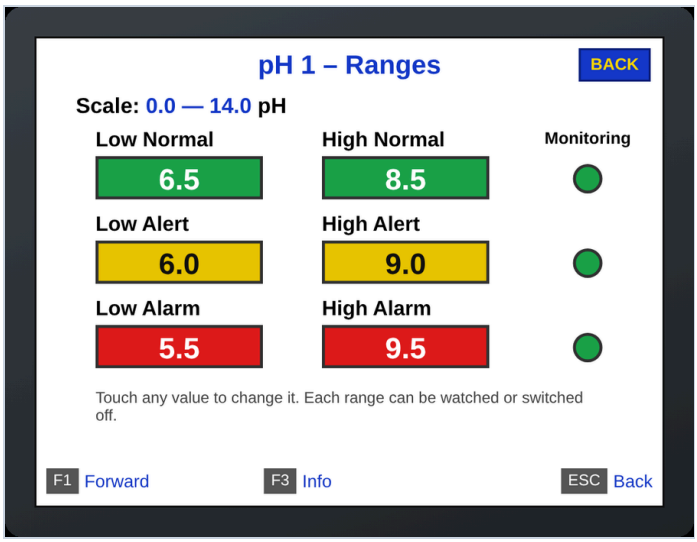
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Units of measure

Every reading shows in the units your team already works with.

- Choose units such as pH, mV, feet, gpm, °F, µS/cm, NTU, psi, mg/L or percent.
- Each sensor gets its own units, so every screen and every data log reads the way you expect.
- No conversions in your head and no confusion between shifts.



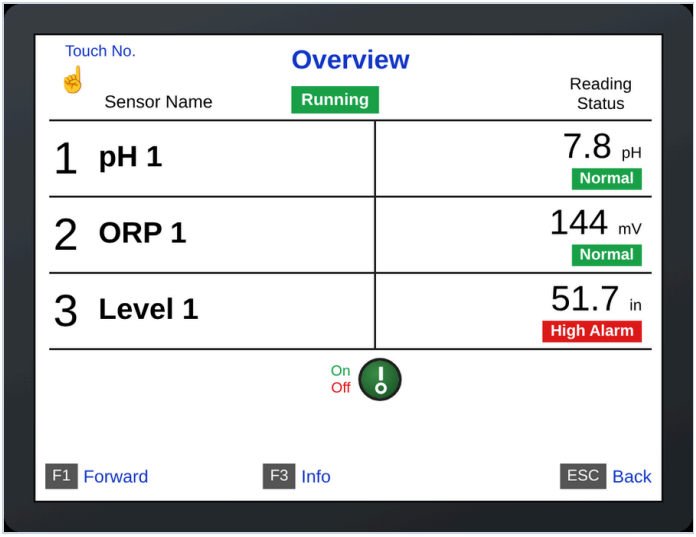
Normal, alert and alarm ranges

You decide what “normal” looks like for each sensor, and the Watch watches for anything outside it.

- Green normal range: where you want the process to run.
- Yellow alert range: an early warning that the process is drifting, before it becomes a problem.
- Red alarm range: the limits that need action now.
- Set the low and high value of each range on the screen, and change them any time. Each range can be watched or switched off.

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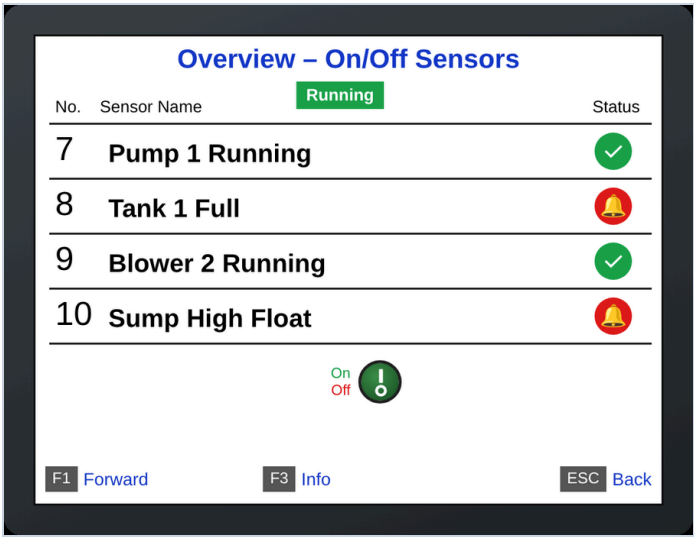
See your whole process at a glance



Overview – measurements

One screen shows every sensor: its name, its live reading and its status.

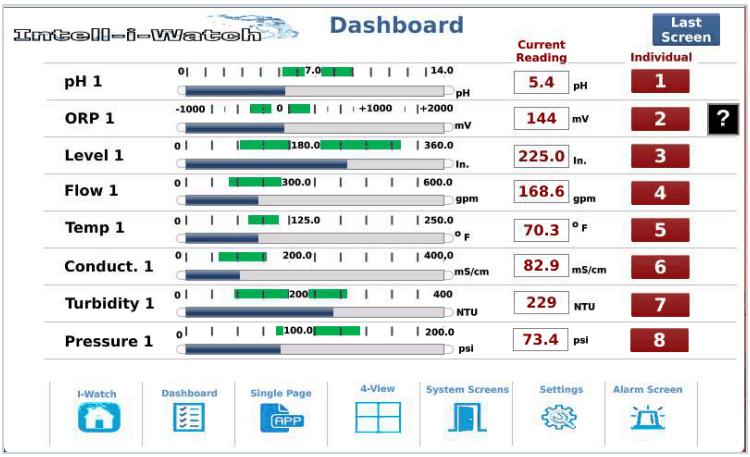
- Anything outside its normal range stands out in color right away, with Low or High shown.
- Touch a sensor's number to jump to that sensor's own screen.
- The Running indicator and the On/Off switch show and control monitoring. Monitoring can run around the clock, be started and stopped with the switch or an outside signal, or follow a daily or weekly schedule.



Overview – on/off sensors

Pumps running, tanks full, float switches, doors: every on/off signal in one list.

- A green check means all is as it should be; a red alarm shows what needs attention.
- Mix on/off signals and measurements on the same Watch.

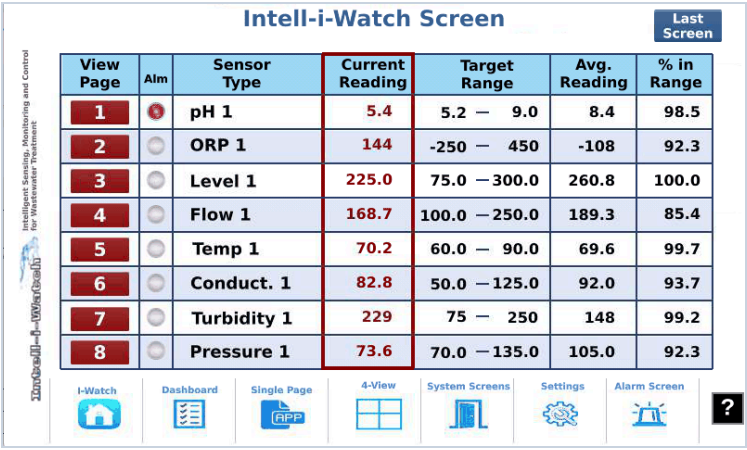


Dashboard

Every sensor's current reading, as a number and a bar graph, on one screen.

- See at a glance where each reading sits on its scale.
- Touch a sensor to open its own screen.

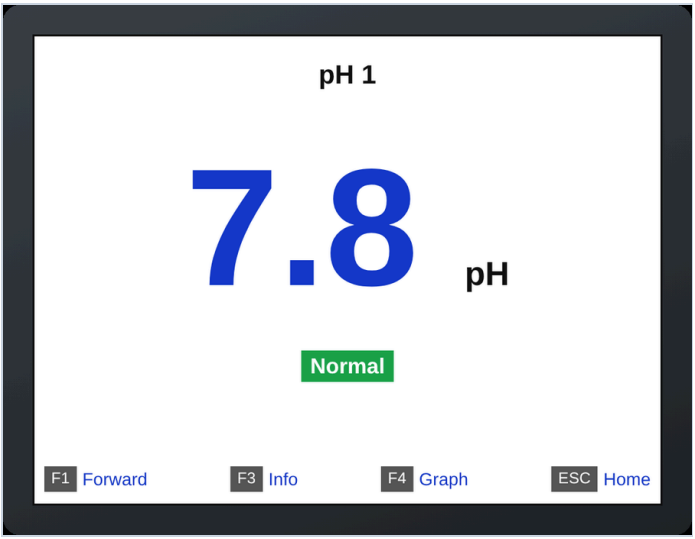
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Overview table

Live readings side by side with each sensor's target range, its average and the percent of time it has stayed in range.

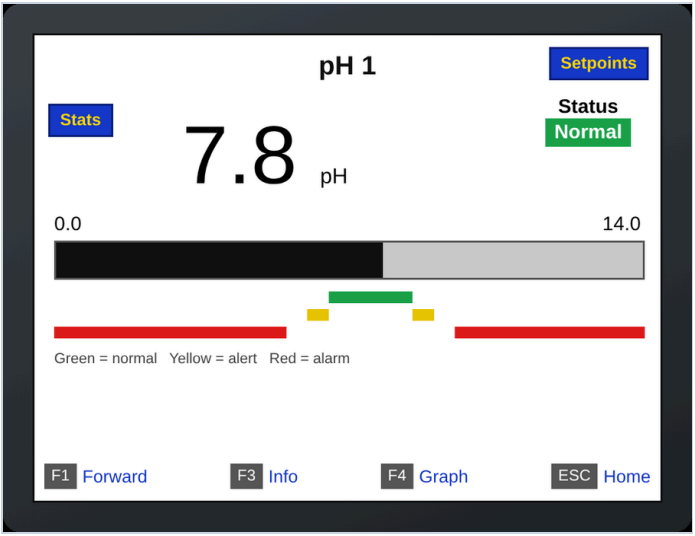
- Shows not just where the process is now, but how well it has been running.



Large-number view

One reading, big enough to read from across the room.

- Ideal for the measurement operators check most often, like discharge pH.

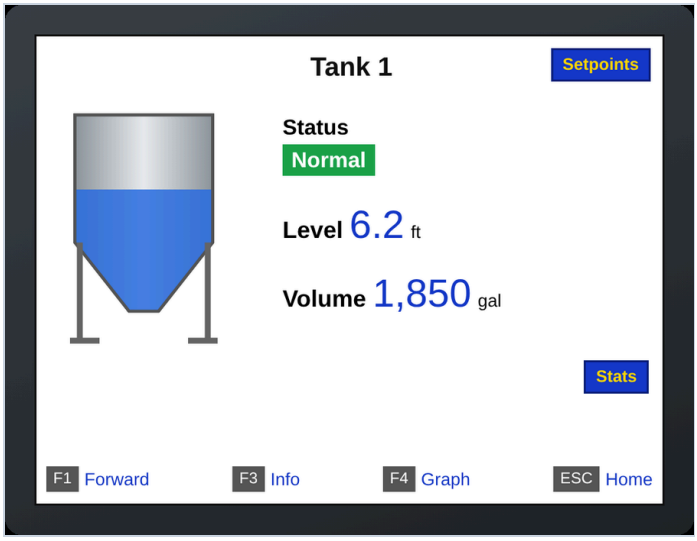


Bar view with range bands

The live reading on a bar, laid over its green, yellow and red bands.

- See instantly how close the reading is to an alert or alarm limit, not just whether it has crossed one.
- One touch to the sensor's statistics, setpoints or trend graph.

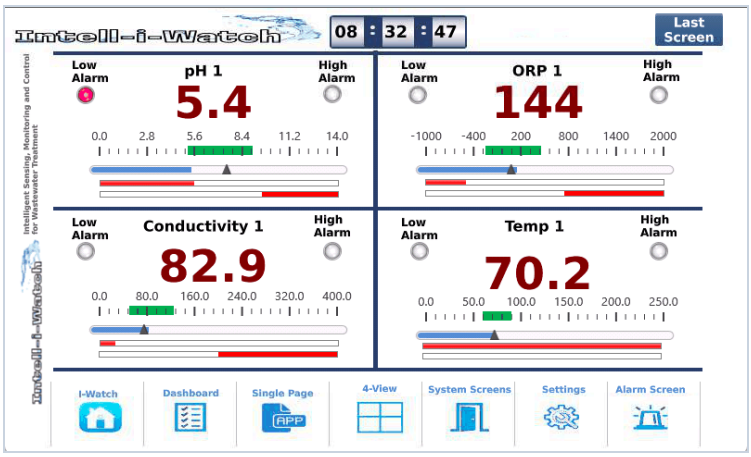
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Tank views

Level and volume shown in a picture of your tank: cone-bottom or straight-wall.

- The fill level moves with the reading, so anyone can read it at a glance.
- Volume is shown along with level, plus the tank's status and links to its statistics and setpoints.

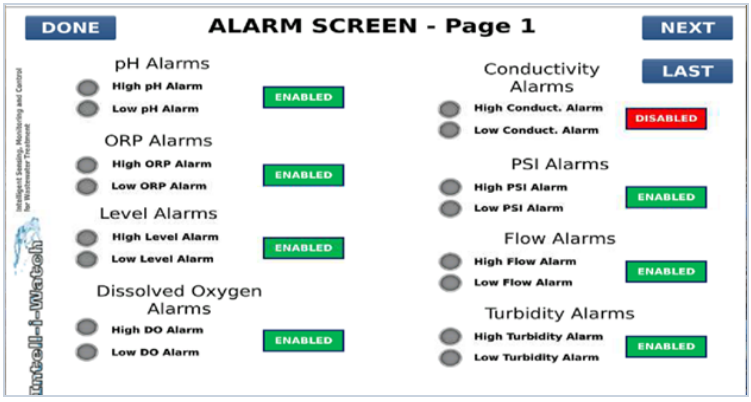


4-View

Four sensors in one screen, each with its reading, range and alarm status.

- Group the sensors that belong together, such as the four readings for one treatment step.

Alarms that work the way you do



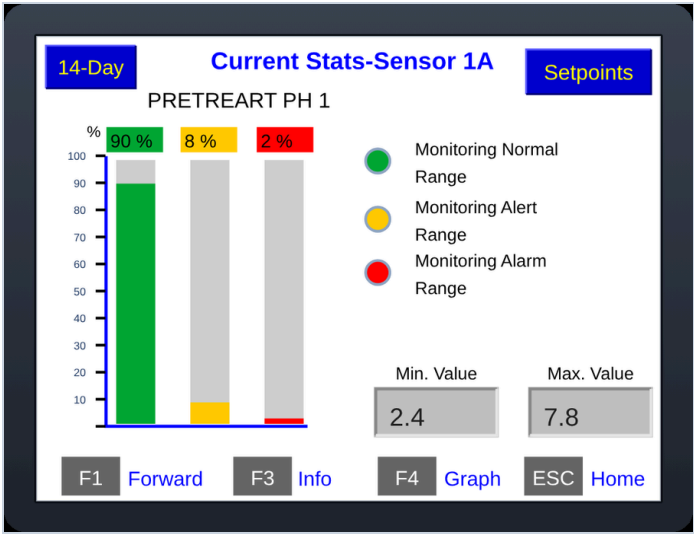
Alarm setup

Turn the high and low alarms for each sensor on or off from one screen.

- Clear Enabled / Disabled status for every alarm.
- Alarms can be delayed to allow for process lag, so short, harmless spikes don't set them off.
- Alarm notifications can also go out by email or text when the Watch is connected (optional, turned on with your approval).

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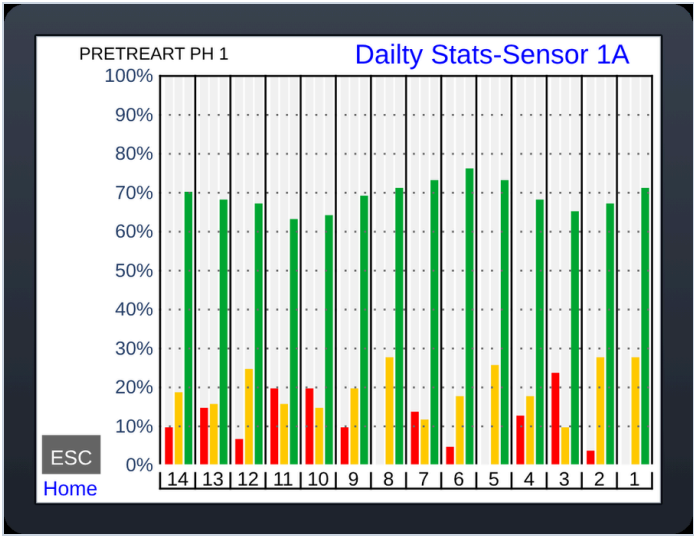
Analysis right on the Watch



Current statistics

How well is the process really running? This screen answers in one look.

- The percent of run time the sensor has spent in its normal, alert and alarm ranges, updated every 10 seconds.
- The lowest and highest readings of the day while monitoring is on.
- Each range can be monitored or turned off. Its indicator shows in color when monitored and white when off.
- Monitoring can run continuously, be turned on and off from the screen, be started by an on/off sensor, or follow a daily schedule. Only the time actually monitored is counted.
- Alarm time delays don't change the percentages.
- One touch to the daily history, the setpoints or the trend graph.

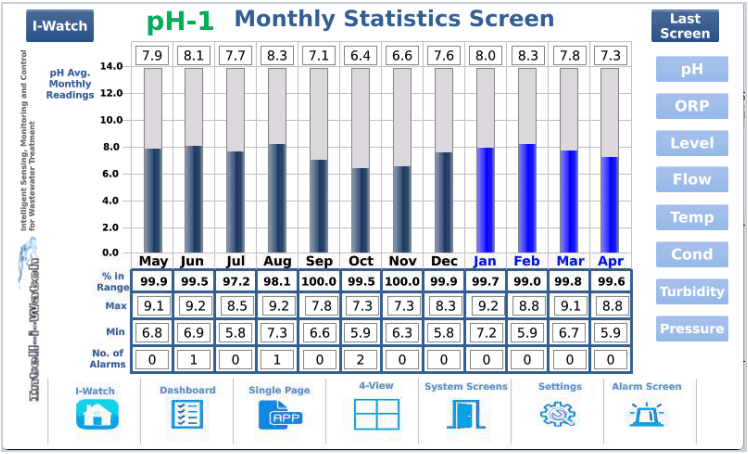


Daily statistics (14 days shown)

A group of bars for each operating day shows how much of that day the sensor spent in its normal, alert and alarm ranges.

- Good days and problem days stand out immediately, without a spreadsheet.
- A steady process shows a steady pattern. A change in the pattern is a sign to look closer.
- 14 days is the example shown. The number of days can be customized (see below).

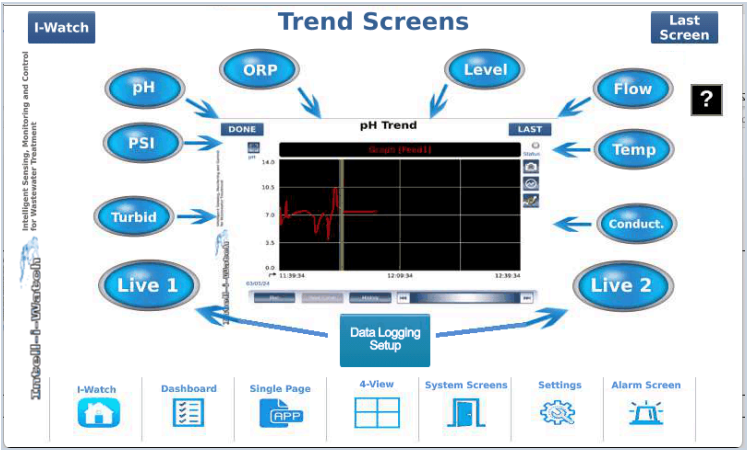
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Monthly statistics

Month-by-month averages, minimum and maximum values, percent of time in range and number of alarms.

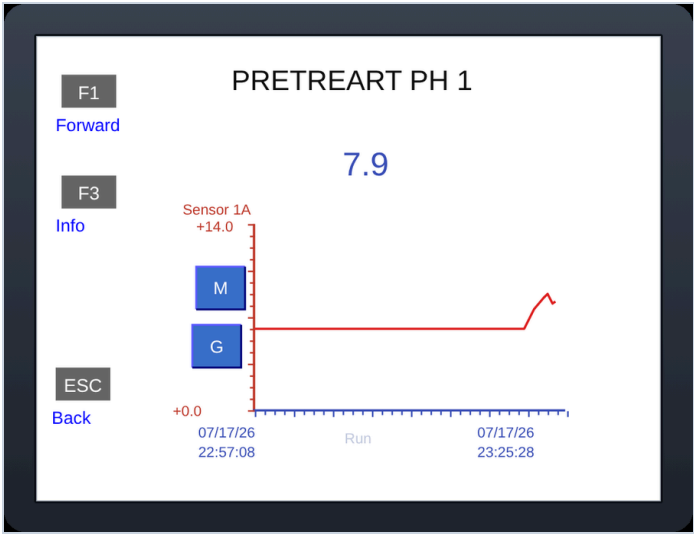
- A full year of months on one screen, so changes over time are easy to see.



Trend graphs

Readings drawn over time: live, short-term and archived.

- See exactly when a change started and how long it lasted.



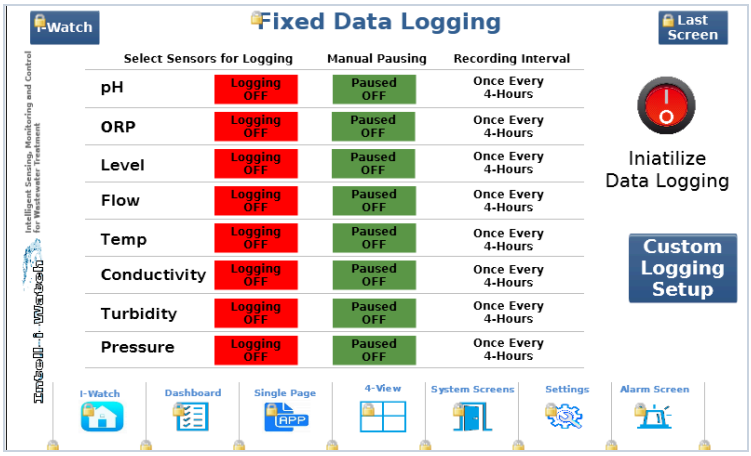
Live trend

The live reading of one sensor drawn as a graph, updated every 10 seconds.

- Up to the last 1,000 readings, about 2.8 hours, with 53 readings on each screen. Scroll back to see earlier readings.
- The vertical scale comes from the ranges you enter, and the sensor name is spelled the way you enter it.
- How often it samples, how many readings it keeps and how many readings show on each screen can all be customized.

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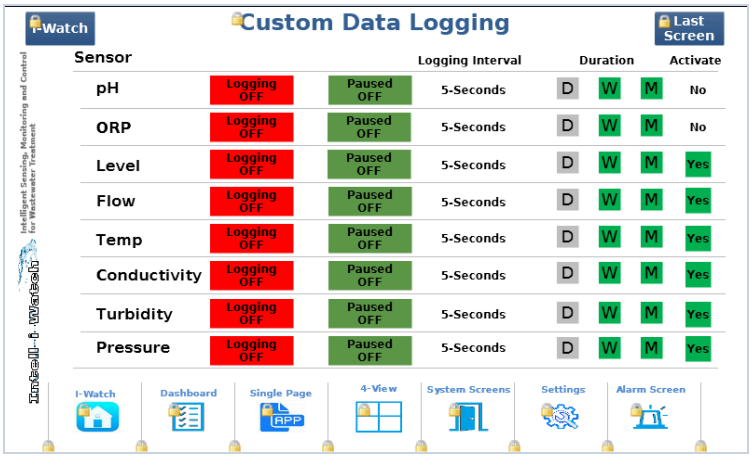
Records you can rely on



Data logging

Choose which sensors to record and how often.

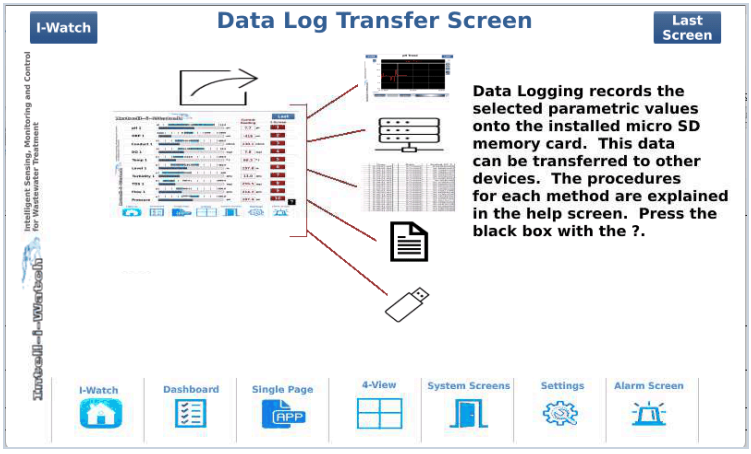
- Every reading is stored with its date and time.
- Pause recording for a sensor when you need to, for example during maintenance.



Custom logging

Set a recording interval and how long to record, by the day, week or month, for each sensor.

- Record every few seconds when you need detail, or less often for slow-changing processes.

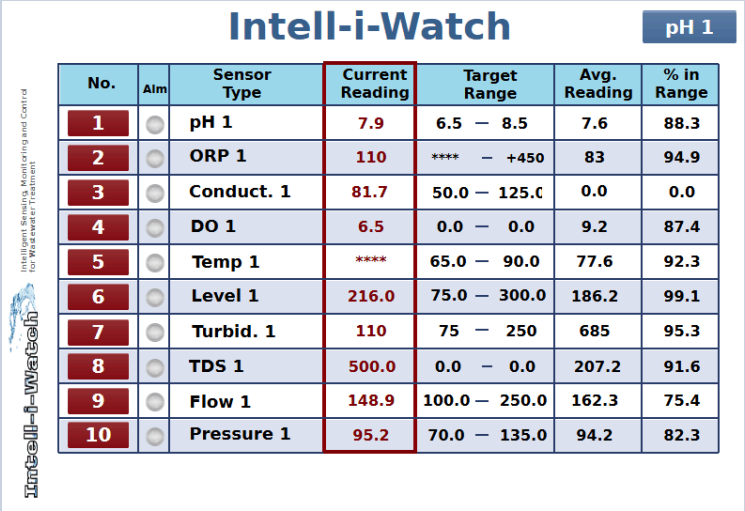


Data log transfer

On-screen steps move your data logs from the Watch's memory card to a USB drive.

- Open them in Microsoft Excel as CSV files for your own reports.

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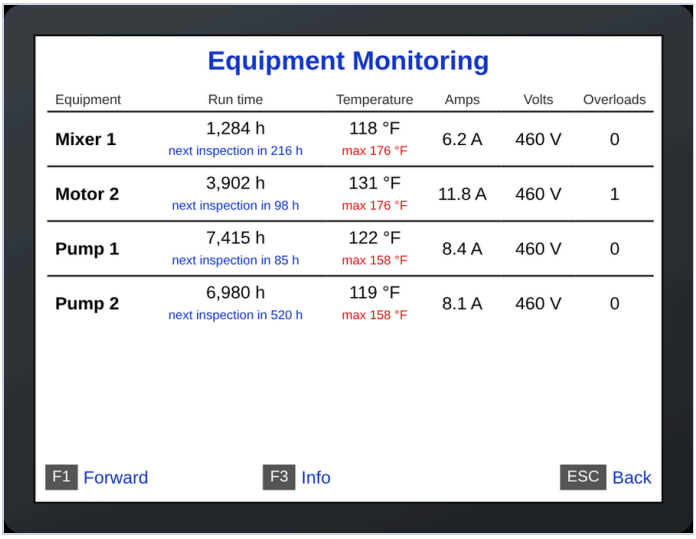
No.	Alm	Sensor Type	Current Reading	Target Range	Avg. Reading	% in Range
1		pH 1	7.9	6.5 — 8.5	7.6	88.3
2		ORP 1	110	**** — +450	83	94.9
3		Conduct. 1	81.7	50.0 — 125.(	0.0	0.0
4		DO 1	6.5	0.0 — 0.0	9.2	87.4
5		Temp 1	****	65.0 — 90.0	77.6	92.3
6		Level 1	216.0	75.0 — 300.0	186.2	99.1
7		Turbid. 1	110	75 — 250	685	95.3
8		TDS 1	500.0	0.0 — 0.0	207.2	91.6
9		Flow 1	148.9	100.0 — 250.0	162.3	75.4
10		Pressure 1	95.2	70.0 — 135.0	94.2	82.3

Web page view (optional)

When connected, password-protected web pages show the readings in a browser.

- Set up pages for specific people, so each person sees what matters to them. Turned on only with your approval.

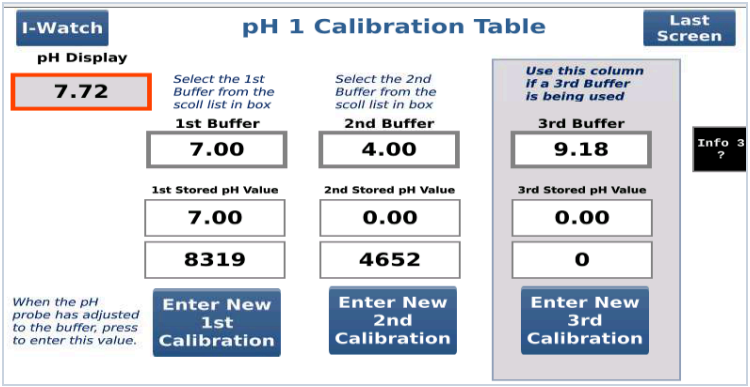
Equipment care and maintenance



Equipment monitoring

Motors, pumps and mixers on one screen.

- Run hours for each machine, and the time left until its next inspection.
- Temperature shown against the machine's rating.
- Amps, volts and overload count.
- Plan service from real run time instead of guessing, and catch a machine running hot before it fails.

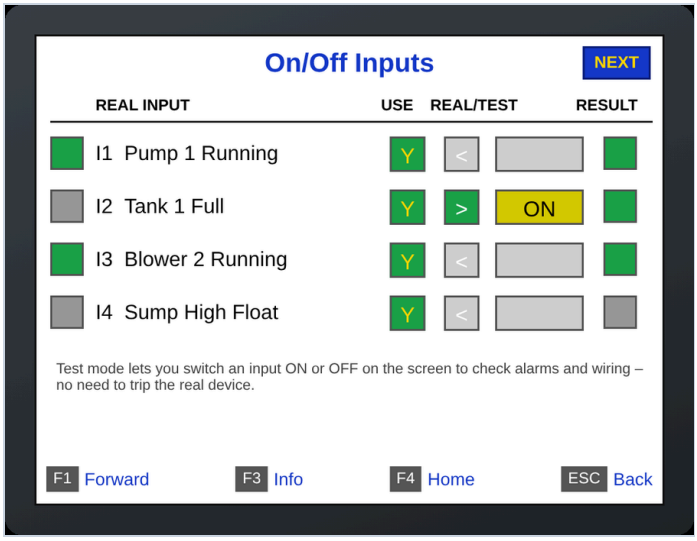


Calibration

Calibrate a pH probe right at the Watch, with on-screen instructions.

- Use up to three buffer solutions.
- The Watch stores each calibration value, so the probe reads accurately.

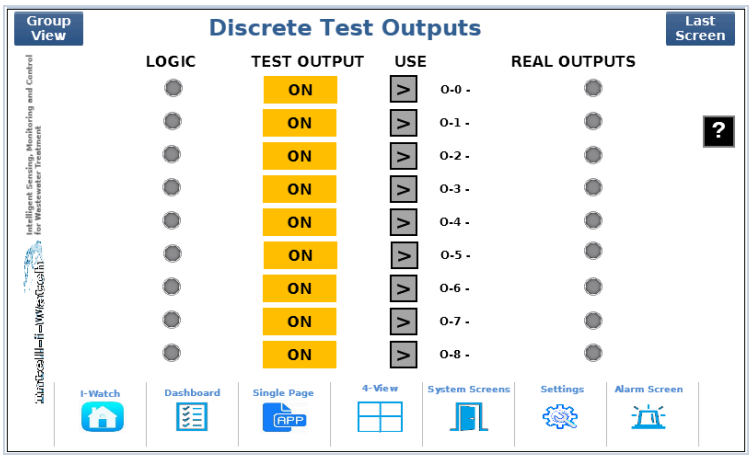
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Test mode for on/off signals

Check alarms and wiring without tripping the real equipment.

- Switch an input to test, set it ON or OFF on the screen, and watch the Watch respond.
- The real input status is still shown, so you always know what is really happening.



Output testing

Turn each output on from the screen to check it and the equipment connected to it.

- Confirm everything works before you depend on it.



One-touch navigation

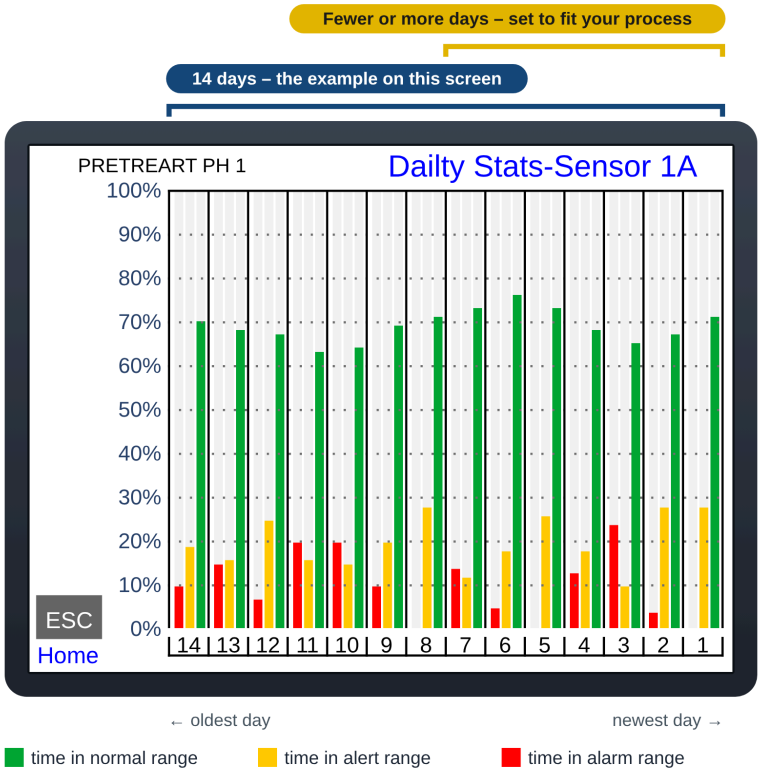
Every screen has the same buttons along the bottom.

- I-Watch (home), Dashboard, Single Page, 4-View, System Screens, Settings and Alarm Screen, always one touch away.

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You choose the analysis window

The daily statistics screen shows the last 14 operating days as an example. The number of days shown can be customized to fit your process.



Each column is one day the system was operating. Days when it is shut down, such as a weekend or holiday, are not counted, so the chart always shows the most recent days of real operation.

When a new day's results are ready, they are added at the right and the oldest day drops off, so the picture is always current.

For each day, the Watch shows how much of the operating time the sensor spent in its normal, alert and alarm ranges. A process meant to be steady shows a steady pattern, and a cyclical process shows a repeating one. A change in the pattern is a sign to look closer.

This chart is a quick snapshot of recent performance, not a permanent record. For a permanent record, turn on data logging for any sensor: each reading is stored on the SD card with its date and time.

All of this is calculated on the Watch itself. No network, cloud or remote access is needed to see it.

1. The Watch takes a reading from each sensor every 10 seconds.
2. Each reading is counted in the normal, alert or alarm range it falls in.
3. When a day's results are complete, they become one column on the chart.
4. The number of days the chart shows can be customized.

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