EnSURE™ Touch Specifications

EnSURE Touch is an advanced monitoring system that collects, analyzes and reports data from a variety of long-trusted quality test devices, providing rapid and accurate sanitation verification data. EnSURE Touch features a 5-inch touch screen, wireless sync technology, and cloud-based software that can analyze test results across facilities in one interactive dashboard. Hygiena's EnSURE Touch connects to SureTrend™ Cloud over Wi-Fi using SSL encryption and securely stores your test results, allowing you to control access with a robust set of user privileges. EnSURE Touch is designed to adapt to your workplace, providing the data you need for complex multi-location supply chain monitoring and risk management.

With compatibility with Hygiena's ATP, Indicator Organism, Enzyme, and Allergen test devices, plus wireless sync capability to SureTrend™ Cloud, you can now centralize all your environmental monitoring tests and reporting in one cloud-based location, giving you a complete 360-degree view of your food safety program. Use our best-in-class ATP test devices to verify cleanliness. Go deeper and use our MicroSnap™ indicator organism tests to isolate problem areas in your facility. You can even test for glucose, lactose, and other enzymes.
Learn more here: https://www.hygiena.com/food-safety-solutions/atp-monitoring/ensure-touch/

The following test workflows have been certified by AOAC-RI as a *Performance Tested Method*℠ on EnSURE Touch: UltraSnap™ Surface ATP Test, MicroSnap™ Indicator Organism Tests (Total, Coliform, *E. coli*) and ZymoSnap™ ALP Pasteurization Verification Test.

General Specifications	
Unit dimensions (W x H x D)	84 mm x 182 mm x 32 mm
Unit weight (including batteries)	approx. 322 g
Operating temperature range	0 °C to 45 °C
Relative humidity range	20% to 85% non-condensing
Storage temperature range	-10 °C to 40 °C
Relative humidity range	20% to 95% non-condensing
Unit Details	
Sensor type	Photodiode (PD) for improved durability and energy efficiency
Screen	Shatter-resistant 5" touch screen
Read chamber	Removable read chamber design for easy cleaning
Measurement range	0 to 20,000 RLUs
Measurement resolution	1 RLU; <1 femtomole of ATP
Measurement time	10 seconds
Measurement noise	±4% or ±4 RLUs
Memory	2 GB internal + cloud storage
Language	Supports multiple languages
User IDs	Limited by 2 Gb storage – 250 characters (> 500,000)
Programmable location names	Limited by 2 Gb storage – 250 characters (> 500,000)
Test plans	Limited by 2 Gb storage – 250 characters; can be randomized (> 500,000)
Results memory size	Limited by 2 Gb storage – depending on field lengths, it is estimated that most users could have over 1 million results
Tilt sensor	Yes, ensures repeatable, accurate test readings

	Annual calibration not required. Simply turn on the self-check feature and every time the system is powered on, calibration will be confirmed.
Calibration	In addition, CalCheck (sold separately), a LED calibration verification device, can be used to verify calibration.

USB Interface

USB-C interface	Used for charging and USB tethering.

Wi-Fi

7811 Wireless Adapter

Standards	IEEE802.11b, 802.11g, 802.11n
Frequency band	2.4000 - 2.4835 GHz (industrial scientific medical band)
Wi-Fi channel frequency	FCC: Channel 1-11 CE: Channel 1-13
Security	WEP 64/128-bit, WPA, WPA2 and WPA3
Data rate	11b: 1/2/5.5/11 Mbps 11g: 6/9/12/24/36/48/54 Mbps 11n (20 MHz): MCS0-7 (up to 72 Mbps) 11n (40 MHz): MCS0-7 (up to 150 Mbps)
Output power	11b: 17 ± 1.5 dbm 11g: 16 ± 1.5 dbm 11n: 13 ± 1.5 dbm

7822 Wireless Adapter

Standards	2.4 GHz: IEEE 802.11b, 802.11g, 802.11n 5 GHz: IEEE 802.11ac, 802.11a, 802.11n
Frequency band	2.4000 - 2.4835 GHz or 5.150 - 5.825 GHz
Wi-Fi channel frequency	FCC: Band 1: 5.150~5.250 (GHz); Band 4: 5.745~5.850 (GHz) CE: Band 1: 5.150~5.250 (GHz)
Security	WEP 64/128-bit, WPA, WPA2 and WPA3
Data rate	11a: 6/9/12/24/36/48/54 Mbps 11b: 1/2/5.5/11 Mbps 11g: 6/9/12/24/36/48/54 Mbps 11n (20 MHz): MCS0-7 (up to 72 Mbps) 11n (40 MHz): MCS0-7 (up to 150 Mbps) 11ac (80 MHz): VHTMCS0-9, up to 867 Mbps
Output power	2.4 GHz 11b (11 M): 8 ± 1.5 dBm 11g (54 M): 7 ± 1.5 dBm 11n (20 MHz, MCS7): 6 ± 1.5 dBm 11n (40 MHz, MCS7): 6 ± 1.5 dBm 5 GHz 11a (54 M): 7 1.5 dBm 11n (20 MHz, MCS7): 6 ± 1.5 dBm 11n (40 MHz, MCS7): 6 ± 1.5 dBm 11ac (80 MHz, VHTMCS9): 4 ± 1.5 dBm

Battery

Battery type	Lithium ion rechargeable battery with USB-C charging
Battery spec	3.7V, 2900 mAh, 10.73 Wh

Warranty

Warranty duration	1 year (additional coverage available), see information here: https://help.hygiena.com/manual/ensure-touch-warranty/

EnSURE Touch, a portable palm-sized luminometer, is manufactured under an ISO 9001:2015 Quality System and complies with the following standards.

General
- Low Voltage Directive 2014/35/EU
- EMC Directive 2014/30/EU
- RoHS Directive 2011/65/EU
- PAH (Polycyclic Aromatic Hydrocarbons)

Safety
- BS EN 61010-1:2010, IEC 61010-1:2010
- UL 61010-1:2012 R4.16
- CAN/CSA C22.2 NO. 61010.1-12 + GI1 + GI2 (R2017)

Emissions
- ETSI EN 301 489-1 V2.1.1, ETSI EN 301 489-17 V3.1.1
- EN 55011:2009 + A1:2010, FCC Part 15 Subpart B:2018
- AS/NZ CISPR11:2015 + A1:2016 + A2:2019, ICES-003 Issue 6

Immunity
- EN 61326-1:2013
- EN 61000-4-2:2009, EN 61000-4-3:2006 + A1:2018 + A2:2010
- EN 61000-4-4:2012, EN 61000-4-5:2006, EN 61000-4-6:2009