

Testers and Monitors

Introduction

In the past, the measurement and monitoring of many important parameters was limited to the laboratory. Now, these parameters are being tested right in the field in various applications, including environmental study, agriculture, the food industry, horticulture, wastewater management, fish farming, water quality maintenance and anywhere quality and accuracy is important. HANNA has developed a large variety of testers and monitors designed to fulfill the requirements of virtually any application.

HANNA offers a vast selection of single and multiparameter testers which cover a multitude of the most important parameters: pH, ORP, conductivity, TDS, temperature, sodium, salt and relative humidity.

Testers can perform on the spot measurement quickly, accurately and inexpensively. They allow users with different backgrounds and technical training to make readings without the need of a laboratory, and without having to purchase much more expensive and complicated analytical equipment.

HANNA provides high accuracy in a single parameter tester for pH, TDS, conductivity, temperature and more. Multiparameter testers are also available, eliminating the hassle of carrying multiple testers.

These testers have easy to read LCD's and durable outer casings. They are able to measure in places with a high percentage of humidity, and low power demand allows a long battery life— no worrying about frequent battery replacement.

pH Testers

All HANNA pH testers come with a replaceable pH probe, a huge advantage over most pH testers on the market today. Clogged electrode junctions are a problem of the past with extendable cloth junctions. When the cloth is dirty from routine testing, readings become slow and instable. This is quickly fixed by simply pulling out 3 mm of cloth, and cutting off the dirty cloth.

Testers feature Automatic Temperature Compensation (ATC) and calibration at one or two points. Being pocket sized, with a narrow tip, they are ideal for measurements in small samples or test tubes.

Conductivity Testers

Conductivity testers are widely used for monitoring EC/TDS in water conditioning, reverse osmosis, cooling towers, drinking water, wastewater, laboratories, agriculture, aquaculture and aquariums, hydroponics and printing industry.

With EC/TDS selectable or fixed conversion factors, readings are made easy. HANNA conductivity testers feature an amperometric graphite conductivity probe that provides greater accuracy and repeatability in measurements because it cannot be contaminated by salt deposits in solutions. Calibration of conductivity testers is simple and it can be manually or automatically in a single point.

Measurements are automatically temperature compensated to ensure correct readings.



Salt and Water Purity Testers

The Salintest can help you monitor the concentration of sodium chloride in live fish storage tanks, tropical fish aquariums and oceanographic investigations. Measurements are performed conductivimetrically, with one point check in a standard salt solution.

Water purity testers enable users to check the purity of your distilled or demineralized water in environments such as printed circuit board washing, laundry, steam cleaning, and all areas where pure water is used. Measurement is conductivimetric.

RH Measuring Tester

Relative humidity testers from HANNA use the thin film polymer capacitance sensing method, assuring a quick and accurate reading. Readings are converted directly in RH units, meaning there is no need for estimating, charts, thermometers and no complicated calculations.

Thermometers

HANNA's thermometers are provided with a unique CAL CHECK™ function for accurate measurements every time. HANNA temperature tester sensors allow users to take measurements with extremely high accuracy in a very short amount of time. The sharp tip of the probes can easily penetrate semisolid products, making routine controls simple and quick. These testers are ideal meters for measuring temperature according to HACCP requirements.

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HANNA Monitors

HANNA monitors and indicators are an ideal economical solution in applications where constant monitoring of a stationary sample is required. HANNA offers a large selection of wall-mountable monitors that cover a multitude of parameters allowing the user to choose the meter and probe that best fits their application. The multiparameter models allow the user to monitor up to three different parameters with one indicator.

Each monitor has been designed to meet specific application requirements such as in hydroponics, greenhouses, horticultural, water treatment, food preparation and processing.

At startup, indicators perform a self check to assure proper working condition. Stability indicators and HOLD functions let the user know when to take readings and freeze the readings on display for easy and accurate recording. Selected instruments in this line provide a visual alarm so the user can easily recognize if the monitored solution is out of specification for the application.

HANNA offers indicators with large backlit LCDs to give users instantaneous readings of both pH and temperature or EC and temperature with utmost clarity. Monitors are provided with automatic calibration, automatic buffer selection and automatic temperature compensation features.

HANNA's wall mounted indicators are very easy to install and work with a 12 V power supply. Many models feature interchangeable probes, so that if an application requires a particular probe it can be plugged in to the meter. All monitors have durable outer casings protecting them from high humidity environments and rain.

pH Monitors

Ideal for growers, pH monitors are supplied with advanced, non-clogging double junction pH electrodes that will withstand the most aggressive environments. Measurements are highly accurate and can be verified with manual or automatic calibration, which can be performed in one or two points.

Should the pH exceed a user selected limit, an incorporated LED will alert the user with a flashing light. This feature allows even inexperienced users to successfully monitor parameters. The LED alarm, and pH value can be set through trimmers on the instrument.

Conductivity Monitors

Conductivity indicators with different measurement ranges are available with a host of features suited for aggressive environments.

Calibration and temperature compensation can be automatic or manual, while the EC/TDS conversion factor and temperature coefficient factor (β) are user adjustable. If desired, the most common TDS constant conversion factor of 0.7 (4-4-2) can be used depending on application specific measurements. Temperature can be easily switched between Celsius and Fahrenheit. Both the direct two pin probes or graphite probes assure great accuracy and little maintenance.

ORP Monitors



HANNA has developed oxidation reduction monitors especially for swimming pool and spa facilities where specific monitoring is needed. Casings incorporate a large, bright led indicator that will flash if measurements fall below the user selected value, enhancing the control and maintenance of water.

Temperature Monitors

Few manufacturers have given any thought to providing users with a convenient way of monitoring temperature conditions in catering, refrigerators and other places that need quick monitoring. HANNA's precision thermometers can be mounted right over the samples to be measured or in refrigerators.

Temperature monitors come with HANNA's exclusive CAL CHECK™ feature. With CAL CHECK™, users can ensure the accuracy of the meter without the need for external equipment.

Food grade stainless steel probes and quick response times assure the safety and preservation of the goods monitored.