



LABCELL LTD

QUALITY • SUPPORT • RELIABILITY

WATER ACTIVITY (ERH) & MOISTURE CONTENT MONITOR

AQUALAB SERIES 4TE DUO



Water Activity (or ERH) is a measure of the free water available for mould growth and bacteria. It influences a product's shelf life, odour, colour, flavour and texture. The NEW AquaLab 4TE Duo is used to provide Water Activity and Moisture Content Simultaneously, along with the Aquasorp Isotherm Generator

The New Series 4TE DUO, when used with the Aquasorp generates Isotherms by measuring Water Activity at many different levels. When this isotherm is loaded into the DUO you can determine moisture content at a given Water Activity point.

SPECIFICATIONS

Series 4 TE DUO Sensor:	Chilled Mirror Dewpoint
Moisture Content Precision	0.02%
Measurement range:	0.10 to 0.95 aW
Accuracy:	+/- 0.003 aW
Resolution:	+/- 0.0001 aw & +/- 0.01% mc
Operating Environment:	4 to 50°C 0 to 90% RH
Operating Temperature Control:	Between 15 and 50°C (user defined)
Measurement Speed:	< 5 min
Data Storage:	10,000 data points
Power:	Universal 110V to 220V AC (mains cable included)
Output:	RS232 to printer / PC
Supplied with:	Sample cups / lids, verification salts, mains cable, operating manual and certificate of calibration

HACCP, ISO9000 and GMP compliant
AOAC Approved method
ISO 9001 Compliant supply

Features

- Rapid measurements – typically less than 5 minutes
- Precise aW values – to within +/- 0.003aw
- Wide operating range (0.10 to 0.95 aW)
- High Accuracy Moisture Content – 0.02%
- Integral sample temperature control
- Simple to use, easy to maintain
- On-board diagnostics – self condition monitor
- Robust sensing technology
- Language option
- Internal data storage

Applications

- Quality Assurance
- Research & Development Labs
- Moisture Content Determination
- Shelf life Determination & Control
- Microbial Detection

Typical areas of use

- Foods (e.g. baked goods, sauces, cooked meats)
- Raw Ingredients
- Pharmaceutical Ingredients
- Tablets, Skin creams, Toothpastes
- Animal Feeds
- Blood, Skin Tissue and Wound Treatment
- Soils and Plant Research

Series 4TE DUO

Integral sample temperature control:

- To minimize ambient temperature fluctuations
- To compare aW values & moisture contents of samples at different temperatures
- Accelerated shelf-life studies
- Packaging and storage simulation
- Cross-site manufacturing comparison
- Isotherm studies
- Proven Technology for Science and Industry