

### Product Code

UTCM-0550E Automatic Vicat Apparatus (VICAMATIC-3) EN, 110-240 V 50-60 Hz, 1ph

UTCM-0550A Automatic Vicat Apparatus (VICAMATIC-3) ASTM, 110-240 V 50-60 Hz, 1ph

### Standards

EN 196-3, 13279-2, 480-2; ASTM C191, C187; AASHTO T131



The setting time determination of cement/mortar/gypsum is one of the most important parameter for the quality inspection and verification.

The new generation automatic setting time tester is now available, featuring a large color 5.1" touch screen display, a needle (or a probe) drops freely into a cement sample at regular intervals and in fixed positions.

Along with hardening process development the penetration depth decreases, when it matches some thresholds pre-defined by standards initial and final setting times are measured and recorded.

### Main Features

- Advanced electronics technologies providing superior performances and total flexibility combined with simplicity in use
- Easy-to-use double interface: local mode, with large size 5,1" touch screen color display and remote mode with PC
- Supplied complete with PC software for data processing VICASOFT-

#### BASIC

- With PC software VICASOFT-PREMIUM (optional) up to 32 independent units (includign VICAMATIC 2 models) can be

connected

to a single PC via LAN port and hub. All units are remotely controlled.

Adopting the multi-test network concept laboratory productivity is maximized

- Integrated graphic printer is available as optional accessory showing both results in numerical format and setting time plot
- Easy setting and storage of user-defined test profiles allowing quick

test start

- Large accessibility to the test space
- Complete with needle cleaning device
- Practical in-water testing accessory (optional)
- Accessories: initial setting time needle 1,13 mm dia., automatic determination of initial and final setting time
- Penetration depth is measured by a sensor with 0,1 mm resolution.

UTCM-0550A is supplied complete with ASTM C191 accessories: setting time needle 1.00 mm dia., mould and PC software VICASOFT-BASIC.

Other accessories should be ordered separately for the tests.

### Technical Specifications

- Conforming to EN 196-3, 13279-2, 480-2, ASTM C191, C187
- 5.1", 800 x 480 pixel, 16 M colors, icon-driven touchscreen graphic display, showing data and plots
- LAN port for direct connection to PC of a single unit or connection to a LAN hub for creating a network with up to 32 independent units all controlled by a single PC. 1 LAN cable is included
- USB port for data download to PC and easy firmware upgrade
- Unlimited storage capacity for test data on internal 16 GB SD card
- Test procedures can be customized and stored to match user-defined requirements
- Can incorporate an integrated graphic printer showing test result and setting time plot
- Large test space with easy accessibility
- Automatic calculation of initial and final setting time at programmable penetration depth limits
- Wide range of accessories including EN and ASTM/AASHTO parts, in-water testing kit, needle cleaning device, integrated printer, probes for testing consistency and gypsum
- Minimum penetrations rate: 10 seconds
- Penetration measurement by encoder

### Firmware Specifications

- Easy programming of customized test profiles, recallable for future tests, including:
  - adjustable test start delay
  - penetration points positions
  - manual or automatic penetration rate
  - free or driven dropping mode
  - holding intervals inside the sample
  - automatic end- test detection
  - automatic measurement of initial and final setting time
- Test data: test number, operator, client, date, hour, cement type, water percentage, delay
- Easy calibration menu
- Clock calendar
- Multi-language

Dimensions	200x400x410
Weight (approx.)	mm 10 kg
Power	50 W

### Accessories

UTCM-0552 LAN hub for PC connection of up to 7 VICAMATIC-2 units or up to 6 units in case of multi-hub network. LAN cable from hub to PC is included. Each VICAMATIC-2 unit is supplied complete with LAN cable.

UTCM-0553 Upgrading of a VICAMATIC-2 unit for incorporating a graphic printer into the head. Test settings and results are plotted both as numerical and graphical format including penetration depth/time diagram. The upgrading shall be factory installed.

UTCM-0559 VICASOFT-PREMIUM Software for PC connection of up to 32 VICAMATIC-2 and VICAMATIC-3 units including remote control of each unit, data acquisition - processing - filing, printout of test reports.

Communication via LAN port (each VICAMATIC-3 unit is supplied complete with LAN cable). The connection of one unit is direct via the PC LAN-port, for more units (up to 32) one or more LAN hubs are required with total number of ports equal (or bigger) to the number of units included in the network. LAN hubs are not included

#### Accessories to EN Standards

UTCM-0551 Accessory for Needle Cleaning and In-Water Testing  
UTCM-0554 Needle for Final Setting Test EN 196-3

UTCM-0555 Cylindrical Probe for Consistency Test

UTCM-0556 Additional Weight 700 g to EN 480-2

UTCM-0557 Water thermostatic unit for VICAMATIC. Up to 2 units may be connected. 230 V, 50-60 Hz, 1 ph.

UTCM-0557-N Same as UTCM-0557, but 110 V, 60 Hz, 1 ph

UTCM-0558 Conical penetration probe 8 mm dia x 50 mm

complete with 100g calibrated weight for gypsum testing to EN 13279

#### Accessories to ASTM Standards

UTCM-0555 Cylindrical Probe for Consistency

UTCM-0566 Cylindrical probe and addition weight for consistency test to ASTM C807.

UTCM-0567 2 mm dia. needle to ASTM C807

UTCM-0568 Brass cylindrical mould to ASTM C807

### Spare Parts

UTCM-0560 1,13 mm dia. needle for initial setting time test to EN

UTCM-0561 1 mm dia. needle for setting time test to ASTM/AASHTO

UTCM-0562 Plastic mould to EN

UTCM-0563 Plastic mould to ASTM/AASHTO

UTCM-0564 Glass base plate

UTCM-0565 Spare base plate for in-water testing kit

UTCM-0571E Centering ring for EN vicat mould

UTCM-0571A Centering ring for ASTM vicat mould