

E044A

VICATRONIC

AUTOMATIC TOUCH-SCREEN VICAT APPARATUS



STANDARDS: EN 196-3, 480-2, 13279-2 | ASTM C187, C191 | AASHTO T131

The new **Vicatronic** apparatus is designed and manufactured using the most recent and sophisticated technology to grant precise measurements of the setting time of cements, mortars, gypsum and other pastes.

The unit is manufactured with anticorrosion components perfect to work in environment with humidity and temperature requested by the relevant standards.



7" touch-screen display with userfriendly interface

High precision sensor for the probe positioning

2 USB ports to save and transfer the data, 1 Ethernet port

Automatic system for sample positioning

Built-in printer to directly print the results

MAIN FEATURES

- Realtime graphic display of the test.
- Fully automatic execution of the tests.
- Pre-set penetration cycles according to the standards.
- Customizable programs for research tests.
- Easy data transfer simply using a USB stick.
- Free fall or guided fall option.

TECHNICAL SPECIFICATIONS

- LCD, TFT, 800x480 pixels, 7 inches, graphic touchscreen
- 2 USB ports, 1 Ethernet port
- Internal encoder with 0,1 mm resolution
- No external PC required
- Minimum time between penetrations time: 15 seconds
- Mobile probe (300 g) and glass plate included
- EN needle (\varnothing 1,13 mm) and ASTM needle (\varnothing 1 mm) included
- EN mould (\varnothing 70/80) and ASTM mould (\varnothing 60/70) included

Power supply: 230V 1ph 50-60Hz 50W

Dimensions: 190x330x470 mm

Weight: 13 kg approx.

PROBES

The mobile probe weighs 300 g (1000 g following the EN, NF Standards), the penetration needle has 1.13 mm diameter (1 mm following ASTM Standard) and its fall can be programmed in free fall or in guided fall. Totally flexible as far as the time is concerned, the penetrations time can be selected between 0.25 minutes and 900 minutes, the interval between two penetrations can be fixed or can change during the test basing on the penetration depth or on the number of penetrations. The options described here above can be combined together.

The penetration measure is read by a very accurate encoder having a resolution of 0.1 mm

The Vicatronic also calculates, visualises and prints:

- Date and time of the test.
- Time of each penetration.
- Depth of each penetration.

E044-11M SOFTWARE **VICATPRO** that allows by the Ethernet port downloading and managing all the data directly from the PC.

E044-12M needed for each Vicat to be connected to the software.

E044-12M Enabling of one Vicat for remote control through Vicat-Pro (E044-11M).

S334-11 Network connection RJ45 cable to connect one Vicat.

S334-12 Switch to connect from 2 to 7 Vicat to the ethernet network.

TIMER 0 – 900 MINUTES

The firmware allows activating a delay on the appliance to the beginning of the test. This program is particularly useful when the approximate setting time of the mortar is known and the operator wants to start the working of the Vicatronic after a certain time in order to concentrate the penetrations with a short interval of time between them and have better measuring values.

TEST RESULTS

The Vicatronic is equipped with two USB ports to allow the saving of the results on a USB stick. It is also possible to print data with the on-board printer.

| | | |
|------------------------------------|------------------------|------------------------|
| Test: TEST1 | | |
| Test type: Vicatronic test | | |
| Test date: 6/13/2024 | | |
| Test time: 1:40:52 PM | | |
| Profile name: EN196-3 | | |
| Penetration mode: Standard | | |
| Drop mode: Driven | | |
| Final setting: Enabled | | |
| Final setting threshold: 6.00 mm | | |
| Default penetration time: 0.50 min | | |
| Penetration radius [mm] | Number of penetrations | |
| 26.00 | 15 | |
| 20.75 | 12 | |
| 15.50 | 9 | |
| 10.25 | 6 | |
| 5.00 | 3 | |
| MANUAL STOP | | |
| Start delay: 0:00:00 | | |
| Penetrations: 15 | | |
| Last penetration: 7.37 mm | | |
| Maximum penetration: 6.00 mm | | |
| Final setting time: 6.00 min | | |
| Penetrations | Penetration depth [mm] | Penetration time [min] |
| 1 | 0.06 | 0.00 |
| 2 | 0.03 | 0.50 |
| 3 | 0.45 | 1.00 |
| 4 | 1.10 | 1.50 |
| 5 | 1.16 | 2.00 |
| 6 | 1.10 | 2.50 |
| 7 | 2.30 | 3.00 |
| 8 | 3.62 | 3.50 |
| 9 | 4.44 | 4.00 |
| 10 | 4.98 | 4.50 |
| 11 | 5.31 | 5.00 |
| 12 | 5.62 | 5.50 |
| 13 | 6.50 | 6.00 |
| 14 | 6.50 | 6.50 |
| 15 | 7.37 | 7.00 |

Printing Example

