



51-21... Geltimer PST-1

Standards

DIN 16916, DIN 16945, DIN EN ISO 9396, DIN EN 14022 Method 5



Application

The Geltimer PST-1 is an instrument for the automatic determination of the gel time of reaction resins. The design is based on DIN 16 945, DIN 16 916, EN 14022 method 5 and DIN EN ISO 9396.

Features

Geltimer PST-1 is very easy to perform and gives exceptionally good reproducibility.

The automatically measurement can be performed for any reaction resin. The instrument is easy to operate and normally no maintenance necessary.

A stamper made of aluminium or stainless steel performs an up-down cycle in a test tube filled with resin. When the point of gelation is reached, the test tube is pulled up by the stamper. This stops the clock which was started at the beginning of the experiment and the gel time can be read of. With the probe temperature system the exothermic reaction can be measured.

As a result of the modular layout the lower part of the housing can be extended to incorporate electric heating or a thermostatically controlled oil or water bath.

The device has a USB port and will be delivered with software. The system and the measurement can be configured directly on the PC. The recorded data are displayed graphically and can be processed as a csv-file in other programs.

The device can be used online or offline. In online mode, the measurements can be carried out comfortably, record and compare the measured data.

Technical Data (Baseunit 51-210-020 with 51-210-016)

Time Measurement	0 to 99 h 59 min 59 s
Accuracy	± 1 second / 2 hours
Reciprocating cycle	every 10 secs. (On request other times can be offered)
Operating temperature	0 to 50 °C
Sensor	Thermocouple type K (Ni-CrNi)
Sensor range	0 to 400 °C
Sensor accuracy	± 1,5 °C including cold-junction compensation

Technical Data (Heating Block 51-210-018)

Temperature range	0 to 250 °C (Actual value display)
-------------------	------------------------------------



Temperature accuracy 30 to 200 °C (on request 250 °C) – (Set value)
 ± 0,3 % off the scale range ± 1 digit
 Resolution 0,1 °C
 Stability ± 0,2 °C

Dimensions and Connection (Baseunit 51-210-020 with 51-210-016)

Dimensions (ØxH) 130 x 361 mm
 Weight ~ 2,5 kg
 Mains 230 VAC / 24 VAC, 50 / 60 Hz
 Power 20 VA, with heating 650 VA
 Interface USB (Type A)

Dimensions and Connection (Heating Block 51-210-018)

Dimensions (Ø) 130 mm
 Mains 100 VAC ... 240 VAC, 50 / 60 Hz
 Power 500 Watt

Partlist

Item no.	Description
51-210-020	Geltimer PST-1 for Geltimer test unit
51-210-016	Geltimer test unit (optical sensor)
51-210-018	Heating block Ø 16mm
51-210-013	PE foam ring (10 pieces)
51-216-001	Stampers made of aluminium for Geltimer (500 Stück)
0400-22-16160	Test tubes (100) 16 x 160 mm
51-228-002	Thermocouple type K, Ni-Cr-Ni (5 Meter)