



TESTBOX1100

DIGIMATIC MICROMETER COMPATIBLE DATA ACQUISITION DEVICE

TESTBOX 1100 series devices are designed to collect data from ultra-precise digital displacement gauges of Mitutoyo Digimatic series in particular. Each device includes 4 channels and the chain of devices can be expanded up to 32 channels over single USB port.

TESTBOX1100 series devices fit properly for tests like Soil Mechanics-Consolidation tests, in which it is required to acquire data from more than one channels and starting each test at a different start time.

ACCESSORIES AND OPTIONS

TESTBOX1100 devices are provided with a TESTBOX- Bridge (Devic Gateway) together with the product for computer connection.

TECHNICAL SPECIFICATIONS	
TESTBOX1001	
Measurement Signal Type	Mitutoyo digimatic
Number of Channels	4 Channels/ device - total 32 channels/ USB port
Digital Input Channels	1 - 4 Units Mitutoyo digimatic compliant
External Apparatus	There is no need for external apparatus in Mitutoyo measurements
Measurement Resolution	0.01 / 0.001 mm depending on the micrometer used
Sampling Speed	4 sampe/ second
Computer connection	USB 2.0
Operating temperature	-20°C ~ +50°C
Box and Dimensions	Metal box (187X173x87 mm)

EASYTEST-CONSOLIDATION

Computer controlled consolidation test solution comprises micrometer digital displacement sensors, data collection devices and software

**Comaptible with TS1900
Testing Standards**

**Turkish National
WaterWorks Laboratories**

Automatic Square Root – Time Logarithm – Time Versus Settling Graphics



With the help of triggering function, automatic recording starts when the user leaves the load to the load arm at the consolidation test station.

Automatic sensing the moment when settling stops and swelling restarts for experiments which are started with non-swelled samples.

Automatic "SQUARE TIME - SETTLING" and "LOGARITHM TIME- SETTLING" with special analysis methods.

Calculating the "time value when 90 percent of the settlement takes place" which is used for determining the consolidation constant as well as "t90" and "t50" and thus minimizing the engineering efforts.

While obtaining the t90 value with the analysis method developed and the reference systems, standardizing the linear line for the square root time - settling graphics obtained from all experiments

Starting test in several stations simultaneously.

Recording and reporting the information of the sample.

Instantenous monitoring of square root time - settling graphic pertinent a the sample in any of the stations where the experiment continues actively.

Recoding and reporting in MS Excel (.xls) format.

Adjustable and detailed automatic reporting options.
(Prepared in cooperation with Turkish National Waterwork Administration - TAKK Department Department)

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DIGIMATIC MICROMETER COMPATIBLE
DATA ACQUISITION DEVICE



- For Mitutoyo Digimatic Series Micrometers
- Soil Mechanics Engineering - Consolidation Tests
- Material Testing
- Quality Control Tests
- Micrometric measurements