

Meter Testing Equipment

Electric Control in the Testing of Meters

Manual control of low-flow streams in meter testing can waste considerable time. The stopping of the flow at the proper time is necessary for accuracy and the operator must stand by to close the valve. Tests at high rates of flow are usually run in reasonably short periods of time, but low-flow tests, to be accurate, are necessarily time-consuming. Electric control of test flows permits the operator to start the test and then do other work until the test is over. The human factor in stopping the test flow is eliminated, thereby increasing efficiency and eliminating error.

Electric Control Unit

The Electric Control Unit may be included with a Standard Test Bench or may be ordered as a package for installation on almost any test bench now in service.

The bypass of the unit contains an electrically operated valve which automatically closes when water reaches the preset level in the calibrated test tank. It is designed for low or intermediate flow tests not over three or four gallons per minute. For high-flow testing, the bypass is closed, diverting the water through the direct line valve, which is operated manually.

How The Unit Operates

When water in the tank reaches the preset test volume level, it makes contact with one of the electrodes and forms a current path through the relay. This causes the relay contacts to open and de-energize the solenoid circuit of the electric valve, causing it to close and stop the test flow. A red light on the transformer box warns against leaving the current on when the valve is not in use. Two electrodes are included to control variation in volume (caused by over-run after valve closes) when testing two rates of flow. The longer electrode is 14" in length.

Ordering Information:

- If Electric Control Unit is to be included when ordering Test Bench, please specify. Order by Catalog Number from table.
- If Calibrated Tanks are not included in order, give distance from top of tank to water level at test volume.
- When ordering Electric Control Unit for installation on test bench now in service, indicate distance from top of tank to water level at test volume. Also specify water flow direction of bench on which Electric Control Unit is to be installed—right to left or left to right—as operator faces bench. Unit is shipped assembled and ready for quick installation. Order by Catalog Number from table.



CATALOG NUMBER	TYPE	BENCH TYPE
ECU-1	Ordered With Test Bench	Indianapolis or Standard
ECU-2	Ordered With Test Bench	Akron
ECU-3	To Install On Existing Bench	Indianapolis or Standard
ECU-4	To Install On Existing Bench	Akron