ATH Spring Tester

Product Description

As a special–purpose instrument, this testing machine is used to test amount of deformation and characteristic of load relation of extension and compression springs. It can be applied to the testing of working load of extension and compression springs under certain working length. Advanced and highly integrated chip microprocessor is adopted by this machine, which also has liquid crystal display (English) and metal enclosure. The interference–killing feature of the system is thus greatly improved.

ATH-10~30

ATH-50~500

ATH-1000~5000

Functional Features

1. Liquid crystal display (English); better Human Machine Interface (HMI)
2. High precision and resolution
3. Three kinds of measurement units can be selected(N, Lb and Kg); inter-conversion is available
4. The user can independently set up acceleration of gravity of the place of usage. In this way, the testing and unit conversion would be more accurate
5. 99 sets of test data can be stored; the user can directly look over, store and delete data in the machine
6. The user can freely shift among the following three patterns: Real-time and peak-value patterns and the pattern of automatic peak value
7. It has the function of client setup and free setup of upper and lower limits (corresponding to audible and visual alarms), storage value, holding value, automatic storage time of peak value, automatic shutdown time (non-operation), etc
8. Judgment of acceptance or rejection of test data to be printed and stored, maximum value, minimum value and mean value (only for tape printing machine)
9. MODBUS-RTU standard agreement is adopted for communication; USB interface is adopted for better connection with configuration and PLC connection

Technical parametrs

Model Number	ATH–10	ATH–20	ATH–30	ATH–50	ATH–100	ATH–150	ATH–200	ATH–300	ATH–500	ATH–1000	ATH–2000	ATH–3000	ATH–5000
Maximum testing load	10N	20N	30N	50N	100N	150N	200N	300N	500N	1000N	2000N	3000N	5000N
Minimum resolution	0.001N				0.01N					0.1N			
Diameter of the platen	34mm				48mm					108mm			
Maximum free length of measurable spring	80mm				150mm					200mm			
Length of travel of the displacement scale	60mm				90mm					150mm			
Division value of the displacement scale	0.01mm												
Indication error	± 1%												
Power Supply	AC 110–240V, 50HZ–60HZ												
Power capability (without printer)	13W												
Power capability (without printer)	20W												
Working tempera ture	20 ± 10℃												
Temperature of storage and transportation	–27℃~+70℃												
Relative temperature	15%~80%RH												