

# ACX-1 - AIRCRAFT CABLE TENSION METER

The ACX-1 series digital tension meter is a hand-held device for measuring tension in aircraft cables of various sizes and specifications. The tension scale is adjustable for measuring in Lbs, Kg or Newtons, in ranges from 20-500 lbs. The large, easy-to-read backlit color display shows Tension, Battery Charge Level, and Cable Size selected. A memory button allows the storage of up to five separate tension readings, plus an average of these values. The instrument is available in several different models to accommodate any size or standard aircraft cable designation. Select the cable size, and the instrument automatically adjusts the calibration from pre-programmed data. Or store up to ten custom calibrations in the instrument. Operated from either rechargeable batteries or AC power, the unit shuts off automatically after 10 minutes of non-use. For travel or storage, the unit is well protected in a durable, lightweight carrying case. Factory calibrated to national standards; calibration certificate included.

- **SELECT LBS, KG OR NT**
- **SELECT CABLE BY SIZE OR CWT DESIGNATION**
- **LARGE, EASY-TO-READ COLOR DISPLAY**
- **RUNS ON RECHARGEABLE NIMH BATTERIES OR AC POWER**
- **ACCURACY  $\pm 2\%$  OF FULL-SCALE**
- **USER DEFINABLE COLOR TENSION RANGE INDICATORS**
- **DATA LOGGING FOR LATER REVIEW OR SERIAL EXPORTING**
- **STORES UP TO FIVE SEPARATE READINGS PER DATA SET, PLUS THEIR AVERAGE**
- **MEMORY RETAINS MULTIPLE DATA SETS**
- **10-POINT CALIBRATION**

## SPECIFICATIONS

### RANGES:

ACX-1-100	5-100 lbs
ACX-1-250	20-250 lbs
ACX-1-500	40-500 lbs
ACX-1-CWT	20-250 lbs
ACX-1-CMB	20-250 lbs

ACCURACY:  $\pm 2\%$  of full-scale

MATERIAL: Aluminum

TEMPERATURE RANGE: 40° to 120° F

POWER: Rechargeable NIMH (6 hours per charge typical), or AC power with input voltage range 100-240 VAC

TENSION RANGE: Define Acceptable Tension Range  
Amber (Low), Green (Desirable), or Red  
(High) Bar Graph indicates current tension

MEMORY: Store up to 5 separate readings plus their average Retain multiple sets of data

DATA LOGGING: Standard Feature  
Numerous entries can be stored for later viewing data can be serially exported with optional serial communication feature

ANALOG OUTPUT: Optional, 0-5 VDC or 4-20 mA

RS-232: Optional Serial Output w/10' cable

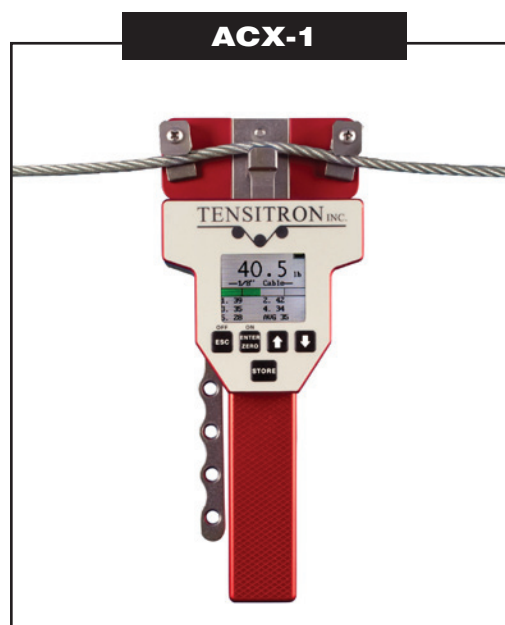
DISPLAY: Color backlit LCD; 4 digits

SAFE OVERLOAD: 50% of rated load

SPECIAL FEATURES: Serial data can be imported into any Windows application either with optional WinWedge Pro software, or by configuring Windows to capture data via Hyper Terminal.

WEIGHT: Approx. 1.5 lbs, depending on options

SIZE:	
ACX-1-250	8.08" (205 mm) X 3.38" (86 mm) X 1.29" (33 mm)
ACX-1-500	8.14" (207 mm) X 5.20" (132 mm) X 1.39" (35 mm)



MODEL	RANGE	RESOLUTION	TENSION VALUES DISPLAY AS	STANDARD CABLE SELECTION
ACX-1-100	5-100 lbs	0.5 lbs	lbs, kg, N	1/16", 3/32", 1/8", 5/32"
ACX-1-250	20-250 lbs	0.5 lbs	lbs, kg, N	1/16", 3/32", 1/8", 5/32", 3/16"
ACX-1-250-M		20-250lbs	0.5 lbs lbs, kg, N	2.0 mm, 2.5 mm, 3.5 mm, 4.0 mm
ACX-1-500		40-500 lbs	1.0 lbs lbs, kg, N	3/32", 1/8", 5/32", 3/16"
ACX-1-CWT		20-250 lbs	0.5 lbs lbs, kg, N	CWT-5 thru CWT-25
ACX-1-CMB		20-250 lbs	0.5 lbs lbs, kg, N	1/16" – 3/16", plus CWT-5 thru CWT-25
ACX-1-CMB-M	20-250 lbs	0.5 lbs	lbs, kg, N	1/16" – 3/16", 2.0 – 4.0 mm

OPTION	FEATURE
-A	Analog Output option for measuring tension values. 0-5 VDC or 4-20 mA with software-definable ending sequences. Provided with 10' cable. Data outputted at 40Hz.
-E	RS-232 Serial Output option. Provided with 10' cable to interface with your receiving device. Select data sampling rate from 1, 2 or 5 Hz.
* Add option-designator letter to the end of the Model Number to specify the option.	

