C705P Digital Indicator

Calibration B coefficients can predict load cell deflection values

7-digit LCD display capable of displaying 999.9999

Does not require additional software to use B coefficients

C705P uses a segmented line method to reduce bias

Program up to 5 discrete channels

The C705P Digital indicator is a standalone unit that does not require additional software, load tables, or computers to use the B coefficients and solve for Force.

The Morehouse C705P Digital Indicator can use span calibrations or coefficients at a lower price point than the 4215 Plus. This indicator is fantastic for field calibration, where the calibration is performed using either ASTM E74 or ISO 376 as the calibration standard. The C705P can also be programmed for span calibrations, typical for those wanting a defined accuracy specification and calibration with verification to that specification.

Standard Features

» Large, easy to read 7-digit LCD with 6 selectable backlit colors
» Perfect for ISO 7500 and ASTM E4 calibration as calibration coefficients can be used to display engineering units
» Calibration B coefficients can predict load cell deflection values throughout the calibrated range.
» If an accuracy specification is required, the C705P uses a segmented line method to reduce bias
» Program up to 5 discrete channels, tension and compression, or 1 mode only
» Up to 100,000 external grads resolution
» Enclosure meets IP-69K
» Heavy-duty swivel mounting stand

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Specifications	C705P Digital Indicator
Input	
Load Cell Excitation	+3.3 VDC
Analog Signal Input Range	± 3.125 mV/V (max.)
A/D Resolution	10Hz to 960Hz, selectable
Display	
Screen Type	1.0", 7 Digit LCD with LED backlight
Resolution	Up to 100,000 external grads
Update Rate	60 Hz ± 0.1 %
Maximum Count	7 digits
Engineering Units	lbf, kgf, N, kN, klbf, gf, ozf
General I/O's	
Serial Port	Full Duplex RS-232
Power Supply	110-240 VAC, 50/60 Hz
Environmental	
Operating Temperature	-4°F to 104°F (-20°C to 40°C)
Dimensions	
Height x Width x Depth	6.6" x 10.5" x 3.9" (168mm x 267mm x 100mm)
Weight	1.41 lbs
Calibration Types	
Load Cell Profiles	Up to 5 stored in memory
Auto-Select Feature	Each profile stores both tension and compression calibration equation; automatically switches between loading modes
Polynomial Calibration Equations	Up to 3rd degree polynomial curve fit entry for each loading mode; two per profile
Live Loading Calibration Equations	Up to 7 calibration points per loading mode; utilizes linear interpolation between calibration points; two per profile

Dimensions
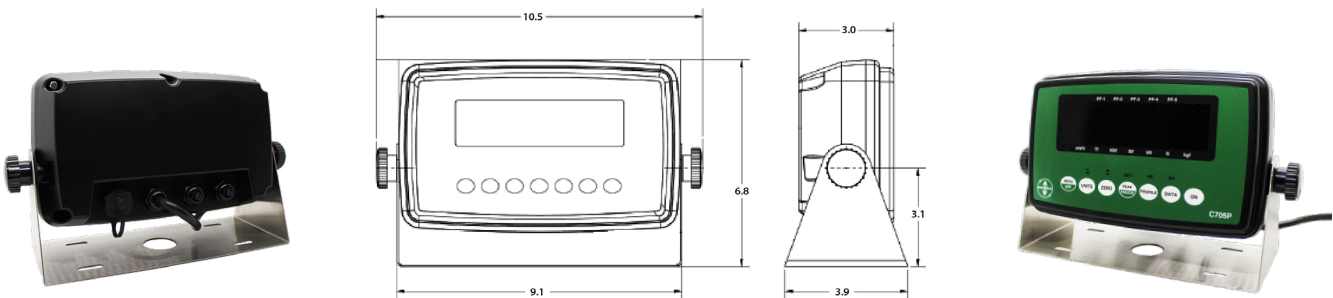
Height (in/mm)	Width (in/mm)	Depth (in/mm)	Base Width (in/mm)	Base Depth (in/mm)
6.6 /168	10.5 / 267	3.0 / 78	9.1 / 233	3.9 / 100

Wiring

Force Sensor Terminal (J1)			
Connector Pin	Description	Connector Pin	Description
GND	Shield	S -	Signal -
E +	Excitation +	SE -	Sense -
SE +	Sense +	E -	Excitation -
S +	Signal +		

GND		V+	V-	E+	SE+	S+	S-	SE-	E-