

# INTERFACE INSTRUMENTATION CHEAT SHEET

## COMMON ABBREVIATIONS

pound-force	lbf	Volt (Direct Current)	VDC
kilopound-force	K lbf	Millivolt per Volt	mV/V
Newton	N	Full Scale	FS
kilonewton	kN	Ohm	Ω
gram-force	gf	Megohm	MΩ
kilogram-force	kgf	Milliampere	mA
kilogram	kg	Rated Output	RO
hertz	Hz	Degree Fahrenheit	°F
kilohertz	kHz	Degree Celsius	°C

## ELECTRICAL

Excitation Voltage	Max power supply allowed
Input Range	The millivolt signal range the instrument can accept from a load cell
A/D Sample Rate - Hz	Hz or kHz is the frequency at which a continuous measurements and converted into discrete digital values (samples) per second
AC Voltages - VAC/, Hz	The required AC power voltage and frequency
DC Voltages - VDC	The required (input) to the instrument or supply voltage (output) from the instrument
Current	The required (input) to the instrument or supply current (output) from the instrument

## PERFORMANCE

Supply	Max power supply allowed
Power Consumption	The rate at which electrical energy is used by a device or system
Power	The electrical energy required to operate
Battery Life	How long the instrument runs on a battery
DC Voltages - VDC	The required (input) supply voltage to the instrument
Current	Current used for power or outputs
AC Power	Power from an AC source
DC Power	Power from a DC source

## TEMPERATURE PERFORMANCE

Weight	How much the instrument itself weighs
Dimensions	Physical size details
Display	The screen that shows measurements and status
Material	What the instrument is made of
Connectors Type	Type of electrical interface or connection method
Unit Announcer	Shows which measurement unit is active

## MECHANICAL

Cables	Various lengths, gauges, and configurations available
Enclosure	The protective housing of the instrument

## AVAILABLE OPTIONS