

# Allegro QX Field Data PC Specifications

## Environmental Specifications

Water and Dust Resistance:	IP66 rating
Operating Temperature:	32°F to 131°F (0°C to 55°C)
Storage Temperature:	-22°F to 158°F (-30°C to 70°C)
Shock Resistance:	Resists shocks as specified by MIL-STD-810G Method 516.6

## Software Specifications

Operating System:	Microsoft Windows Embedded Handheld 6.5.3
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## Mechanical and General Specifications

Size:	5.4 in x 10.2 in x 2.5 in
Weight:	2 lbs, 8 oz
Battery:	Lithium-ion   3.7 VDC @ 10,600 mAh   38.7 Wh   Lasts up to 14 hours under continuous survey conditions   Charges in 2-4 hours
Display:	4.2 inch active-viewing area   TFT color VGA (640 x 480)   Projected capacitive touch interface   Scratch-resistant, chemically strengthened glass   High-visibility backlit LCD
Wireless:	Bluetooth® 2.1, class 1.5, range 100 ft   Wi-Fi 802.11 b/g/n with extended range   3G GSM (microSIM) pentaband worldwide (optional)
Sensors:	Compass   X-Y level
Keyboard:	Full numeric and QWERTY keypad   Adjustable key backlight
Camera:	5 megapixel with autofocus and video   LED illuminator (includes flashlight feature)   Photos tagged with time and date
GPS:	High-sensitivity GPS and GLONASS receiver (u-blox)   SBAS accuracy: 2 m   Autonomous accuracy: 5 m   Internal antenna
Ports:	RS-232C 9-pin D connector   USB host (full A)   USB client (micro B)   12-24 VDC input   3.5 mm audio jack   I/O docking port   3-pin trigger (M8 female)
Certifications:	MIL-STD-810G   FCC Class B   CE Marking   Industry Canada   EN60950 Safety

## DVM Specifications

Working Voltage (DC):	250 V max. on primary input   500 mV max. on shunt input*
Working Voltage (AC):	175 V max. on primary input   350 mV max. on shunt input*
Input Impedance:	100 MΩ on primary input   100 kΩ on shunt input*
Measurement Category:	CAT II 250V

Accuracy by Range:				Accuracy Examples:	
	Range	Accuracy**	Temperature Coefficient	Signal	Accuracy
DC	0-500 mV	± (0.1% + 0.025 mV) <sup>†</sup>	0.007% / °C	100 mV	± 0.13 mV
	0-5 V	± (0.1% + 0.001 V) <sup>†</sup>	0.007% / °C	DC 850 mV	± 1.9 mV
	5-250 V	± (0.1% + 0.05 V) <sup>†</sup>	0.007% / °C	50 V	± 0.1 V
AC	0-350 mV	± (1% + 0.105 mV) <sup>††</sup>	N/A	100 mV	± 1.1 mV
	0-3.5 V	± (1% + 0.00105 V) <sup>††</sup>	N/A	AC 850 mV	± 9.5 mV
	3.5-175 V	± (1% + 0.0525 V) <sup>††</sup>	N/A	50 V	± 0.55 V

\*This input has a range and impedance specially designed for measuring shunts more accurately.

\*\*Accuracy shown is for operation in temperatures from 15°C to 35°C. Annual calibration is required to maintain DVM accuracy.

<sup>†</sup>DC voltage error increases by 0.1% in the presence of 35 to 100 volts of AC interference.

<sup>††</sup>AC voltage accuracy applies to input frequencies of 50 or 60 Hz.

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