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

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

Accuracy by Range:

	Range	*Accuracy*
DC	0-500 mV	± 0.1% + 0.025 mV**
	0-5 V	± 0.1% + 0.001 V**
	5-250 V	± 0.1% + 0.05 V**
AC	0-350 mV	± 1% + 0.105 mV
	0-3.5 V	± 1% + 0.00105 V
	3.5-175 V	± 1% + 0.0525 V

Accuracy Examples:

	Signal	*Typical Accuracy*
DC	100 mV	± 0.13 mV
	850 mV	± 1.9 mV
	50 V	± 0.1 V
AC	100 mV	± 1.1 mV
	850 mV	± 9.5 mV
	50 V	± 0.55 V

*This input has a range and impedance specially designed for measuring shunts more accurately.
**DC voltage error increases by 0.1% in the presence of 35-100 volts of AC interference.

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