

Allegro™ QX Field Data PC

Unquestionable Accuracy & Seamless Integration

Built to collect close interval, DCVG or periodic surveys data with unquestionable accuracy, Allegro data integrates seamlessly with PCS Compliance software and Concentric® Survey Manager.



- **Easy to Use** – Allegro’s QWERTY keyboard, full number pad for data entry and large color VGA display make it easy to use in all environmental and lighting conditions. The internal, WAAS-enabled internal GPS provides coordinates quickly and accurately, and the integrated camera takes time-stamped, high resolution photos that aid in asset documentation, and can be embedded into PCS.
- **Designed for CP**– Supports surveys including: close interval, DCVG, and periodic surveys for facilities, leak, atmospheric and valve. It also displays survey data graphically, including using live waveforms.
- **Fully Integrated** – Allegro integrates with PCS, web-based Survey Manager software, a Digital Voltmeter (DVM), internal GPS and software that can conduct synchronized, interrupted surveys.
- **Reliable** – A single battery charge will last all day with the quick-charging lithium ion battery, even in nonstop survey conditions. Allegro can be coupled with RFID technology to improve data reliability.
- **Calibration** – With an integrated DVM ensure accurate, consistent measurements of 0.25 percent when reading DC voltage, even in the presence of up to 100 volts of AC interference. Avoid unscheduled downtime by calibrating your Allegro DVM every 12 months. Calibrations include a calibration certificate that you can present to your auditor upon request and a report that shows detailed test data.

For information, visit go.aiworldwide.com/Allegro

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 250V

Accuracy by Range:				Accuracy Examples:		
	Range	Accuracy**	Temperature Coefficient		Signal	Accuracy
DC	500 mV	± (0.1% + 0.025 mV) [†]	0.007% / °C	DC	100 mV	± 0.13 mV
	5 V	± (0.1% + 0.001 V) [†]	0.007% / °C		850 mV	± 1.9 mV
	250 V	± (0.1% + 0.05 V) [†]	0.007% / °C		50 V	± 0.1 V
AC	350 mV RMS	± (1% + 0.105 mV) ^{††}	N/A	AC	100 mV	± 1.1 mV
	3.5 V RMS	± (1% + 0.00105 V) ^{††}	N/A		850 mV	± 9.5 mV
	175 V RMS	± (1% + 0.0525 V) ^{††}	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.

[†]DC voltage error increases by 0.1% in the presence of 35 to 100 volts of AC interference.

^{††}AC voltage accuracy applies to input frequencies of 50 or 60 Hz.

03042019



aiworldwide.com

info@aiworldwide.com

12211 Technology Blvd. Austin, TX 78727 • 800-229-3404