

# 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.



## Allegro QX field data PC specifications

### Environmental specifications

Water and dust resistance:	IP66 rating
Operating temperature:	32oF to 131oF (0oC to 55oC)
Storage temperature:	-22oF to 158oF (-30oC to 70oC)
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 colour 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). GPS photo tagging (time and date)
GPS:	High-sensitivity GPS and GLONASS receiver (u-blox)   SBAS accuracy: 2 m. Autonomous accuracy: 5 m. Internal antenna

#### Accuracy by Range:

	Range:	Accuracy:
DC	0-500 mV	$\pm 0.1\% + 0.025 \text{ mV}^*$
	0-5 V	$\pm 0.1\% + 0.001 \text{ V}^*$
DC	0-350 mV	$\pm 1\% + 0.105 \text{ mV}$
	0-3.5 V	$\pm 1\% + 0.00105 \text{ V}$
	3.5-175 V	$\pm 1\% + 0.0525 \text{ V}$

#### Accuracy Examples:

	Range:	Accuracy:
DC	100 mV	$\pm 0.13 \text{ mV}$
	850 V	$\pm 1.9 \text{ mV}$
	50 V	$\pm 0.1 \text{ V}$
DC	100 mV	$\pm 1.1 \text{ mV}$
	850 mV	$\pm 9.5 \text{ mV}$
	50 V	$\pm 0.55 \text{ V}$

\* DFC voltage error increases by 0.1% in the presence of 35-100 volts of AC interference.