

DAQ MODULE 910



Dust &
waterproof

IP66

800 m

Long wireless
communication range

Sampling rate

4 kHz

1-300

Hundreds of
synchronized
channels

3-channels per module

XYZ

Measurement time
without recharge

Synchronisation

$\pm 5 \mu\text{s}$

10 h



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OPERATION

Wireless data acquisition system is an easy-to-use entity to be used with an external vibration/shock IEPE-sensor. The measurement set can consist of 1-100 DAQ Modules, DAQ Gateway and DAQ Manager.

To set up Solmu Wireless DAQ system, all you need to is to follow these four simple steps:

- 1) Power the Gateway and turn on Modules.
- 2) Make a WLAN connection from a pad/smart phone/laptop to the Gateway.
- 3) Start the Manager software by opening a browser and typing address 192.168.7.1
- 4) Start a measurement from the Manager software.

CHARACTERISTICS

Sampling rate	4 kHz
Passband frequency (3 dB) per channel	0.08 Hz - 2310 Hz
Battery duration	10 h (active measurement)
Synchronisation accuracy	$\pm 5 \mu\text{s}$
Storage	8 GB
Data output format	CSV, UFF, UFF binary, TDMS
Data output unit	$\text{g (m/s}^2\text{)}$
Ingress protection	IP66
Operation temperature range	$-20^{\circ}\text{C} - +55^{\circ}\text{C}$
IEPE excitation current	2.1 mA
IEPE voltage	25 V
ADC resolution	32 bits
Radio	868 MHz, 2-GFSK, 50 kbps
Power supply	3.6 V lithium-ion 18650 rechargeable battery
Casing	Rugged aluminium case with neopren pads

DIMENSIONS & WEIGHT



CERTIFICATIONS

	Standard	Standard reference
EMC	Radiated emission, 30 MHz - 6 GHz	EN 55032
	Limits for harmonic current emissions	EN 61000-3-2
	Limitation of voltage changes, fluctuations and flicker	EN 61000-3-3
	ESD (Air +/- 8 kV and contact +/- 4 kV)	EN 61000-4-2
	Radiated RF field (80 - 6000 MHz, 3V/m)	EN 61000-4-3
	RF common mode (150 kHz - 80 MHz, 3V) AC port	EN 61000-4-6
	Conducted emissions (150 kHz - 30 MHz) AC port	EN 55032
Safety	Safety of electrical and electronic equipment within the field information and communication technology with a rated voltage not exceeding 600 V. (pending)	IEC 62368-1 IEC 62133-1
Hazardous substances	Restriction of Hazardous Substances (RoHS)	2011/65/EU
RF exposure	Assessment of the compliance of electronic and electrical equipment with restrictions related to human exposure to electromagnetic fields (10 MHz - 300 GHz)	EN 62479-2010
RF	RF radiation	EN300 220-1 V3.1.1 EN300 220-2 V3.1.1

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