

# P8020

Mobile, rugged 24-bit Data Acquisition System



The P8020 supports up to 40 high speed analog inputs plus two tacho inputs. Units can be stacked to expand the system up to 160 channels. Various input options are available. These include high speed analog (for microphones & accelerometers), thermocouple, strain gauge, precision tachometer measurement, digital I/O, CAN and GPS. An analog output option is also available. Each card is complete with programmable signal conditioning, which is controlled by the DATS software.

Maximum sampling rate is 100k samples/sec/channel (24-bits) 400k samples/sec/channel (16-bits). Data integrity is assured with a dynamic range of 102dB and a  $-120$ dB noise floor. Multi-band support enables synchronized measurement of low frequency vibration, high frequency acoustics and strain.

With a 12V DC power supply and only transducers to connect the integrated

# P8020

## Specification



Find out more about the P8020 at  
[prosig.com/p8000/p8020.html](http://prosig.com/p8000/p8020.html)

### System

Analog inputs	up to 40 channels plus tachos
Expansion	Flexible packaging options
Split rate sampling	Multiple sampling rates can run concurrently on separate cards
Programmability	All features under software control
Communications	USB 2.0

### Environmental

Shock and vibration	Suitable for mobile use (7g rms)
Operating temperature	0°C to +40°C (32°F to +104°F)
Humidity	80% RH, non-condensing
Weight	Dependent on configuration, channel count & chassis

### General

Supply voltage	Choice of 10–36V DC (e.g. vehicle battery) or AC mains (adapter supplied)
Dimensions† (H x W x D)	50mm x 380mm x 330mm 2.0" x 15.0" x 13.0"

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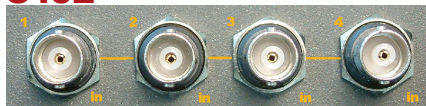


youtube.com/user/TheProsig



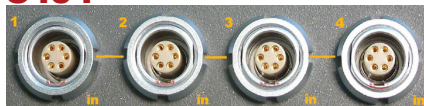
The P8020 can be fitted with up to 5 of the following cards

### 8402



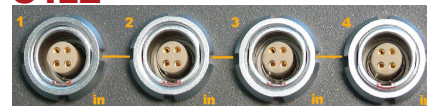
4 channel ADC + Tacho (IEPE & Direct)

### 8404



4 channel ADC + Tacho (IEPE, Direct & Bridge)

### 8412



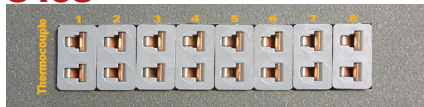
8 channel ADC + Tacho (IEPE & Direct)

### 8414



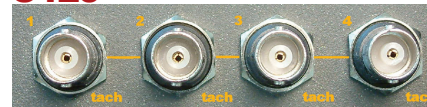
8 channel ADC + Tacho (Direct & Bridge)

### 8408



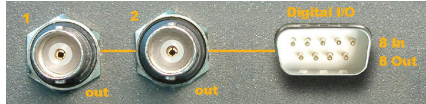
8 channel Thermocouple

### 8420



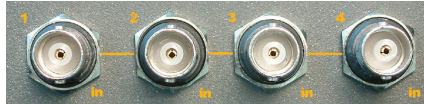
4 channel Advanced Tacho

### 8424



2 channel/4 channel DAC & Digital I/O

### 8405



4 channel ADC + Tacho (Charge)

### 8440



CAN Input & GPS

## Contact Prosig

**Prosig Ltd (UK)**

Email: [sales@prosig.com](mailto:sales@prosig.com)

Phone: +44 (0)1329 239925

**Prosig USA Inc**

Email: [prosigusa@prosig.com](mailto:prosigusa@prosig.com)

Phone: +1 248 443 2470