

## WHO WE ARE

*Implementing the advantages of electronics for mechanics and power fluid is the entrepreneur spirit that since the eighties has led to the growth of BPE Electronics with major investments in research and development of innovative sensors for cranes, aerial platforms, loaders and truck cranes.*

*It is actively growing and has found continuity, as well as new horizons thanks to a partnership with Brevini Fluid Power, an Italian owned business founded in 2003 by the union of companies from the fluid power sector for over forty years. It is a main hub for made in Italy businesses in the mechatronics sector which includes, besides Brevini Fluid Power in Reggio Emilia, OT Oil Technology in Parma, as well as BPE Electronics in Novellara, VPS Brevini in Bologna and Brevini Fluid Power Yancheng in China.*

## Together to make a difference

*BPE Electronics has become a Brevini Fluid Power Company since 2008. The company from Novellara, specialised in electronics was fully part of the development plan based on synergies that unite the entire Brevini Group, a hub which also includes Brevini Power Transmission and Brevini Wind with a turnover of more than Euro 400 million, 2,500 employees and production units in Italy, Germany, China, United States and Brazil.*

**ELECTRONIC BOARDS  
TRANSDUCERS**

# ELECTRONIC BOARDS

Design, manufacturing and implementation of full custom systems for any application, electronic boards, radio controlled systems and remote GSM telemetry.

## Customizable and programmable electronic boards

12/24 V<sub>DC</sub>, PL c/d (EN 13849-1) or Cat. 2/3 (EN 954-1), PC GUI software compatible



**M93** 24/48 input, 17/34 output. Programmable on request. Modular. Two independent CAN bus channels  
**MD93** 24 input, 17 output. Programmable on request. Embedded display. Modular. Two independent CAN bus channels  
**MG93**  
**M96**



**M92** 10 input, 7 output  
Programmable on request.  
Modular. CAN bus.  
**LLD300M82** Geometric, moment or load control.  
**MD83** 20 input, 6 output.  
Programmable on request.  
Embedded display.  
**VPL** 3/2 input, 1/2 output.  
Programmable on request.  
LEDs bar and actuation/signalling output.  
**LLD150I** Pressure, moment or load control.  
Easy trimmer calibration.

## Tilt devices

12/24 V<sub>DC</sub>, PL c/d (EN 13849-1) or Cat. 2/3 (EN 954-1), PC GUI software compatible



**IDXYmP MkII**  
Programmable maximum tilt limitation, two thresholds, special functions on request.

## Solenoid valves driver

12/24 V<sub>DC</sub>, PL c/d (EN 13849-1) or Cat. 2/3 (EN 954-1), PC GUI software compatible



**MAV4211, MAV1152**  
4x2 proportional and 1 ON/OFF solenoid valves  
5x2 ON/OFF and 1 proportional solenoid valves

## Leveling devices

12/24 V<sub>DC</sub>, PL c/d (EN 13849-1) or Cat. 2/3 (EN 954-1), PC GUI software compatible



**LAB3**  
One axis proportional leveling and load control



**IDXYmP MkII**  
ON/OFF leveling up to 4 semi-axis



**GP200**  
Up to 4x2 solenoid valves, with embedded sensor



**M93**  
Fully customizable, with remote sensor.



**SP MkII**

## Signal amplifiers

12/24 V<sub>DC</sub>, redundant version and special functions on request



**ADS-100**



**ADS-200**  
Voltage, current or CAN bus output

## Solar tracking control systems

12/24 V<sub>DC</sub>, modular, PC GUI software compatible



**MD83 Sun**



**MD93 Sun**  
Modular solar tracker control and management

# TRANSDUCERS

Design and manufacturing of custom transducers, load pins and load cells.

## Angle transducers

5/12/24 Vdc,  
redundant channel  
on request



**TAC MkII**

Digital, with ratiometric, voltage, current or CAN bus output. Angular range up to 360 degrees



**SP MkII**

Digital, with ratiometric, voltage, current or CAN bus output. Measurable tilt up to  $\pm 20$  degrees



**TA-Sc**

Analog, with ratiometric output, for relative angle measure, from 0 to 270 degrees



**TA-320**

Analog, with ratiometric output, from 0 to 320 degrees

## Length transducers

5/12/24 Vdc,  
redundant channel  
on request



**TL** (From 8.5 to 50 m)

Ratiometric, voltage, current or CAN bus output



**TLu** (Until 5.5 m)

## Angle and length transducers

5/12/24 Vdc,  
redundant channel  
on request



**AS** (From 8.5 to 13.5 m)

Ratiometric, voltage, current or CAN bus output



**ASu** (Until 5.5 m)

## Strain gauge transducers and load cells

5/12/24 Vdc,  
redundant channel  
and special sizes on  
request



**TAN**

Ring cell



**TC**

Compression cell



**TC35**

35 mm diameter compression cell



**TC45**

45 mm diameter compression cell



**TC82**

82 mm diameter compression cell



**TT**

Shear cell



**TPE**

Pin cell



**TR**



**TD**

Traction cell



**TD**

Deformation transducer

## Displays

12/24 Vdc



**OPUS**

Programmable colour graphic display. Some sizes available



**GPD-X1**



**GPD-X1**

2x20 digits LCD display



**VPM-CM**

Double LEDs bar display

## Pressure transducers



**TPV-M / TPA-M**

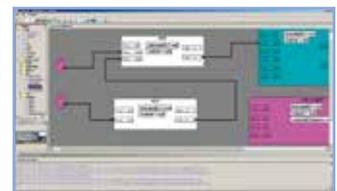
From 0.5 to 4.0 Vdc or from 4 to 20 mA signal. Full scale 250 or 400 bar. Special pressure values on request.

## End user custom software



**BPEterminal**

For set up and advanced configuration



**BPEbricks**

For electronic board programming

# Innovation for growth

BPE Electronics was founded in 1987 thanks to the entrepreneur spirit of Angelo Becchi who had set off many researches and experimentations since the 1980s that mainly resulted in the production of electronic boards, control modules, levelling devices, planarity indicators, angle sensors, length sensors, angle and length sensors, pressure transducers, extensometer transducers and load cells, displays, solar tracking systems, amplifiers for extensometer transducers and power supply units, all for many applications in the mobile, lifting and machine management and safety sectors. The BPE Electronics know-how is the basis of systems and fully customisable solutions and hence highly competitive in sectors such as in the machine management, control and safety sectors.

The company's headquarters are located in Campagnola (Reggio Emilia) and the company relies on about thirty highly qualified employees. BPE has reached a turnover of Euro 5 million with exportations reaching 40% and will continue to grow thanks to the synergies established with Brevini Fluid Power. BPE Electronics is a CIA registered company, CAN Automation Institute. The standard protocol CANopen is used with CAN and POWERLINK communication technologies. In 2004, the research centre BPE Electronics was accredited by the Italian Ministry of University and Scientific Research and is part of the Italian network of laboratories created to give an active contribution to technology innovation in terms of efficiency and productivity. BPE Electronics has been certified with the quality management system UNI EN ISO 9001:2008 issued by DNV Italia.



Progettazione, produzione e assistenza di schede elettroniche e trasduttori per il controllo di apparecchi di sollevamento (Settore EA-10)



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