

PME – Programmable Mobile Electronics

The new PME range from Wandfluh (Programmable Mobile Electronics) comprises a freely programmable control which is especially designed for use in mobile applications.

Under the term PME, Wandfluh has launched a versatile hydraulic solution with freely programmable individual components, e.g. a control display or various button modules and input/output modules. These components can be individually connected via a CAN-bus interface and not only used to control hydraulic valves, they can also take on other switching and control tasks. As a bi-directional interface, the CAN-bus also enables sensor communication and status indications, as found in most hydraulic applications, to be transferred back to the control modules and by way of an example, for this data to be shown graphically on the control display. This way, in a optimum cost/benefit relationship, a professional, clearly-arranged and intuitively operated control can be developed for small to complex hydraulic applications.

One application which shows the versatility and user friendliness of a PME solution relates to a modified trailer for transporting wood with a payload of over 10 tonnes. This can be hydraulically powered or braked on impassable and steep terrain. At the same time, the control display supplies graphically processed operational and diagnosis data which allows the user to quickly and easily get an overview of the current operational state of his machine and when necessary, intervene. At the same time, the options of a PME solution are so versatile, that even camera images can be shown on the display via a separate interface.

Besides simple and intuitive operation, the system provides additional benefits:

- Reduction in wiring complexity
- Easy expandability thanks to the CAN-bus and free programming
- Control and sensor feedback via a single interface cable
- Control and processing of various modules (valves, headlamps, camera, etc.)
- Easy maintenance and fault analysis

Besides the development and manufacturing of high precision hydraulic components, Wandfluh specializes in project planning as well as designing, calculating and programming customized hydraulic applications. Thanks to a wide experience in the field of valve technology, innovative system solutions can be developed and implemented with the customer. With the PME range, the expansion of the product portfolio brings great benefits in terms of operability and flexibility in the development and implementation of customer-specific applications, especially in the field of mobile hydraulic technology.



Fig. PME – Programmable Mobile Electronics of Wandfluh
<http://www.wandfluh.com/press/>

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Oil-hydraulic control and closed circuit control equipment NG3 to NG10 (2/2-directional control built-in valves up to NG40); proportional control valves, incl. electronics; valves with integrated electronics; miniature hydraulics NG3 and NG4; poppet valves, flow in both directions; spool valves with minimum leakage rates; modular design technology with slip-on / screw-in cartridges ISO 7789; feed systems; soft-switching valves; special surface protection; explosion-protected valves; drive units; hydraulic systems; special equipment for oil-hydraulics and other fluids.

Western - and Eastern Europe, North and South America, Asia, Oceania, Southern Africa