

## DATA SHEET

### Innovative software development concepts

Early on in the over 40 year company history, H+K moved from the simple membrane switch to complex input systems. Expertise in software development for interface adjustments were necessary. For the past 15 years, the Software department has developed individual programs and drivers for innovative products from medium-sized to large-scale industries. The wide application variety of customers always provides H+K with new challenges and requests a diverse range of ideas from the development team.

Working in close cooperation with clients, innovative concepts and clean technical implementation are the core values of our company. Our software department is familiar with all the common tools, protocols and interfaces.

We support you with:

- development of firmware based on your specific requirements
- developing keyboard protocols
- integration of touch pads, mouse pads and touch screens
- the development of user-defined standard interfaces

#### Specifications and Documentation

The basis for a successful development project is the precise definition of requirements and the creation of a concept that keeps the entire product life cycle in focus.

Our services:

- support during the proposal phase
- analysis of feasibility
- specifications
- support to outline specifications
- scope statement and documentation

#### Flawless communication between machine and input unit

We specialize in the following interfaces:

- RS232, RS485
- Can Bus
- Lin
- Profibus, Profinet
- Ethernet
- I2C, SPI
- USB (HDI generic)
- Bluetooth
- OneWire
- Analogue digital interface (PWM, 0-10, 4-20mA, ...)

We have dedicated experience with the following platforms:

- Amtel AVR, ATMegaXXX
- Microchip PICxx
- AT89C51 XXX
- Cortex M0, M3, M4
- ARM9

#### Integrated test scenarios for quality assurance

To ensure the quality of the software developed by H+K, our developers are working on the basis of established programming guidelines, which are characterized by both the current technology innovations, as well as substantial experience.

Our test equipment:

- Labview
- National XXX
- Siematic S7
- Ixxat
- Comsoft
- Etc.