HANNING & KAHL
Vital Interlocking Processor
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Today, complex demands are made on vital processor systems as core components in control and safety technology such as automatic train control and electronic interlocking which call for safety integrity level (SIL) 4. To fulfil these tasks, HANNING & KAHL has designed the new vital processor system HVIP, Vital Interlocking Processor.

The concepts we have elaborated consider current and future market requirements, customer wishes and modern technology. The HANNING & KAHL Public Process Data Interface (PPDI) in conjunction with modern LAN interface technology ensures future-proof realisation of process visualisation and telecontrol. Complex installations are simplified by division into control segments with high availability. An adequate number of interfaces and data services has been defined and developed. Standard peripheral equipment can be connected via a special BUS.

In the HiVIP, we have kept to the successful concept of modular design and flexible extension. The processor systems can be adapted to control requirements and scaled accordingly.

Special features:
- Safety integrity up to SIL4 (EN 50129)
- ICPU with 3 processors
- Extensive LED displays
- Modular design
- 24 vital inputs per component
- 8 vital antivalent outputs per component
- Reliable current-measuring of outputs
- Extended interface/data service concept
- High-specification standardised software
- Extended temperature range
- Local system structure
- Local field bus for coupling of non-vital periphery
- Complete development in compliance with CENELEC incl. IRIS-conform process management
- Equipment-specific configuration and views in the diagnosis module
- Formation of function groups and function objects
- Overview maps, line networks
- Integrated interface with HiVIP diagnosis, Operate & Observe, Depot Management, Event Viewer