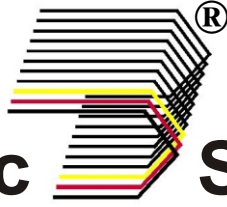


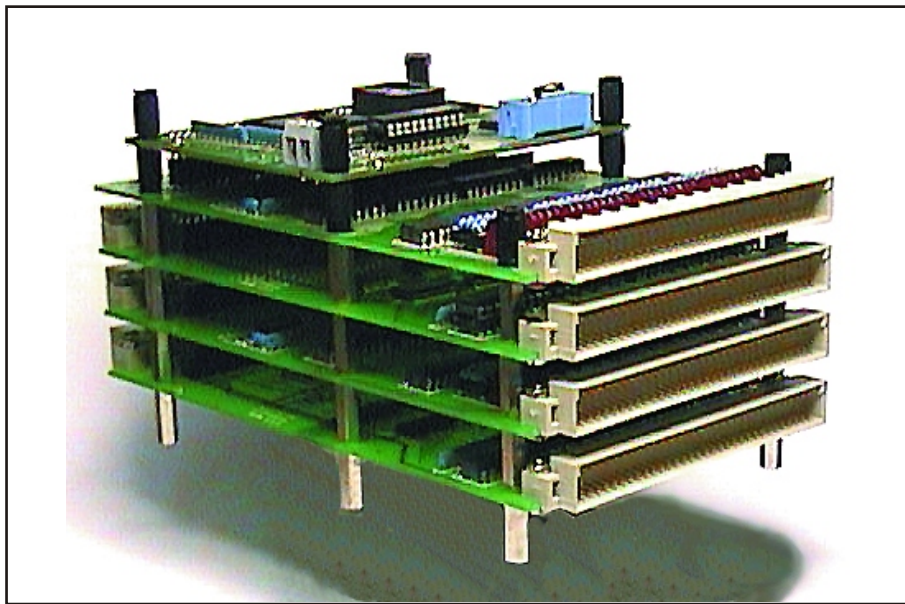


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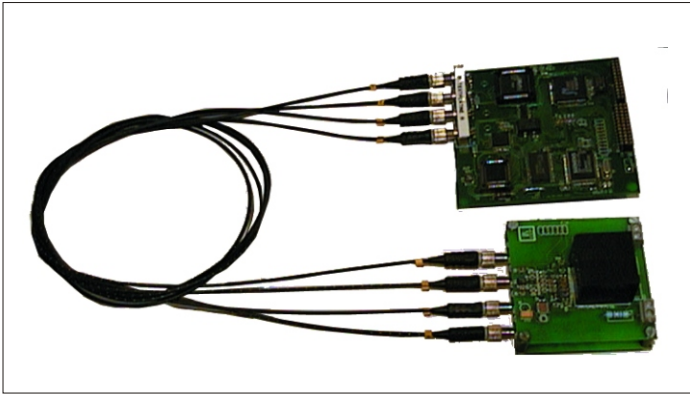


**Pra\_matic System**



CE<sub>0158</sub>

**Network and  
bus technology**



Intrinsically safe PROFIBUS with FSK modem and fiber optics connection for controlling machines and engines



Explosion-proof housing Pr111 for chemistry and mining with an integrated PC for visualization and controlling of different equipment (Profibus technology)



Intrinsically safe control unit PR116/V for mining with an integrated FSK modem for transmitting (Profibus technology) measured values, sensor data and parameters



Intrinsically safe Profibus modem for RS485, RS232, BB 22444, fiber optics etc.

**Description**

The profibus (standardized according to EN 50 170 and/or DIN E 19245) was successful as an essential standard in Europe and gets more and more of importance worldwide.

The central unit of the PRA\_matic system is the intrinsically safe PR116/V with an intrinsically safe FSK modem, that collects and evaluates every piece of data (pressure, distance, temperature, position, voltage, current, r.p.m. etc.) and then transmits it via profibus to the central station on the surface. Data from the surface can also be transmitted to the underground devices.

The intrinsically safe profibus data transmission can be used over large distances. This data transmission system guarantees a speed of 93,75 kBit/s.

We are able to support all industrial interfaces, especially Profibus FMS, DP und FDL.

The transmitted data is visualized (visualization). The user has information about all important operations:

- monitoring, parameterization und diagnosis of electrohydraulic controls
- control und monitoring of plow or shearer systems
- control und monitoring of compact stations
- monitoring of conveyor systems
- monitoring of pump systems
- monitoring and control of engines
- diagnosis systems for electrical und hydraulical devices
- information and monitoring systems for underground air systems.



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