PINTSCH
Safety for Rail

Level crossing technology.
Safe. Reliable. Capable.

**PINTSCH diagnosis software
for level-crossing control systems**

PINTSCH diagnosis software for level-crossing control systems

Foreword

PINTSCH supplies for its Type RBUEP, RBÜT and BÜP93 level-crossing control systems a comprehensive diagnosis concept, the use of which can be quickly and easily learned, thanks to its clear and simple structure. This software thus permits a reduction in servicing and maintenance work, which also ultimately generates cost-savings thanks to higher availability.

The following facilities are available to the operator for rapid trouble-shooting:

- LEDs on PCBs
- Free-of-charge diagnosis software for desktop and laptop PCs
- Remote-diagnosis capability via wireless modem (GSM/GSM-R)
- Information for maintenance staff via wireless modem
- Integration into higher-level maintenance concepts

Diagnosis at a glance

All PINTSCH modules feature a range of LEDs on their front panels to permit immediate detection and elimination of any malfunctions. All important operating states are displayed here in real time.

Features:

- PB level-crossing control systems generally feature "At a glance diagnosis"
- Standardised diagnosis software for all PB level-crossing control systems
- Easy-to-use diagnosis software
- Local diagnosis using Laptop/PC
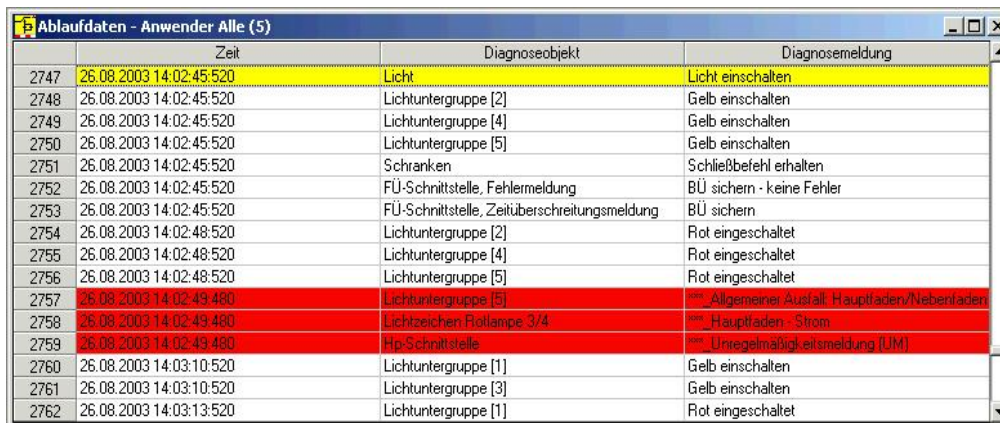- Diagnosis via wireless modem (GSM / GSM-R)
- Diagnosis centre

ISO 9001:2008
BUREAU VERITAS
Certification

PINTSCH diagnosis software
for level-crossing control systems

Local diagnosis using a desktop or laptop PC

All relevant operating states and occurrences are recorded across prolonged periods by our level-crossing control systems. All stored operating and functional data can be read out using a desktop or laptop PC and the free-of-charge PINTSCH diagnosis software. The same software can also be used to read out the system configuration and statistical data. The diagnosis software runs on Microsoft Windows® systems and is user-friendly and easy to learn.
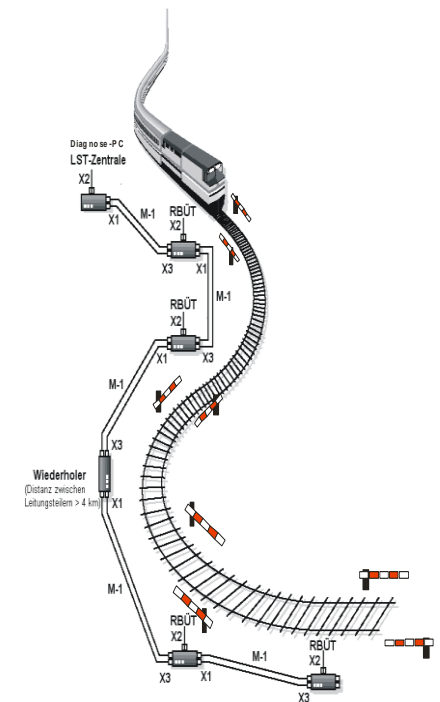

Subject to technical changes

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Diagnosis via wireless modem

All PINTSCH level-crossing control systems optionally support connection of a modem or wireless modem. The **GSM** and **GSM-R** (**G**lobal **S**ystem for **M**obile Communications – **R**ailway) mobile telephony systems can be used, depending on the modem type.

This remote-polling system permits polling of all data from any location, exactly as in local diagnosis at the site. Fully automated transmission of error and/or malfunction messages in the form of a text message to a mobile telephone, of a Fax message or of an e-mail is also possible. The operator can also set up a notification cascade with multiple contact persons. Should the first contact person in the cascade not undertake corrective action in case of an error/malfunction message, the level-crossing control system then transmits a message to the next contact person in the chain after the expiry of a pre-selectable time.

Diagnosis network and centre

Remote diagnosis via diagnosis centre

A diagnosis network makes it possible to transmit the diagnosis information from up to 254 level-crossing control systems to a diagnosis centre (Laptop/PC) even across greater distances. This is accomplished by means of splitters. The length of the connection between the splitters must not exceed 4 km. Refreshers (repeaters) are necessary if the distances exceed 4 km. Both braided star quad signal cables and twisted-pair telecommunications cables (Fm) can be used for electrical connection of the splitters with one another.

	Bahnübergang	Ein		Systemzeit	Anlagenzustand	Meldung	Übertragung
1	BÜ 76,2 Heuberg	☑		14:29:04:320 07.10.2002	Anlage Ok		Übertragung Online
2	BÜ 76,8 Eckarts	☑		14:29:04:320 07.10.2002	Anlage Ok		Übertragung Online
3	BÜ 77,5 Tanners	☑	🟥	14:29:04:320 07.10.2002	Störung	LzUgr[3]: Rot defekt	Übertragung Online
4	BÜ 78,5 Seifen	☑		14:29:04:320 07.10.2002	Anlage Ok		Übertragung Online
5	BÜ 80,0 Flecken	☑		14:29:04:320 07.10.2002	Anlage Ok		Übertragung Online
6	BÜ 80,7 Stein	☑		14:29:04:320 07.10.2002	Anlage Ok		Übertragung Online
7	BÜ 81,0 Kirchbichl	☑	🟡	14:29:04:320 07.10.2002	Fehler	Lz Gelb 1/2: Hauptfaden Dunkelstromfehler	Übertragung Online
8	BÜ 81,4 Großner	☑		14:29:04:320 07.10.2002	Anlage Ok		Übertragung Online
9	BÜ 88,3 Alpsee Wies	☑		14:29:04:320 07.10.2002	Anlage Ok		Übertragung Online
10	BÜ 89,9 Trieblings	☑		14:29:04:320 07.10.2002	Anlage Ok		Übertragung Online
11	BÜ 91,9 Risthof	☑		14:29:04:320 07.10.2002	Anlage Ok		Übertragung Online
12	BÜ 92,4 Felder	☑		14:29:04:320 07.10.2002	Anlage Ok		Übertragung Online

Display of level-crossing control systems monitored in the diagnosis centre

Subject to technical changes

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