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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

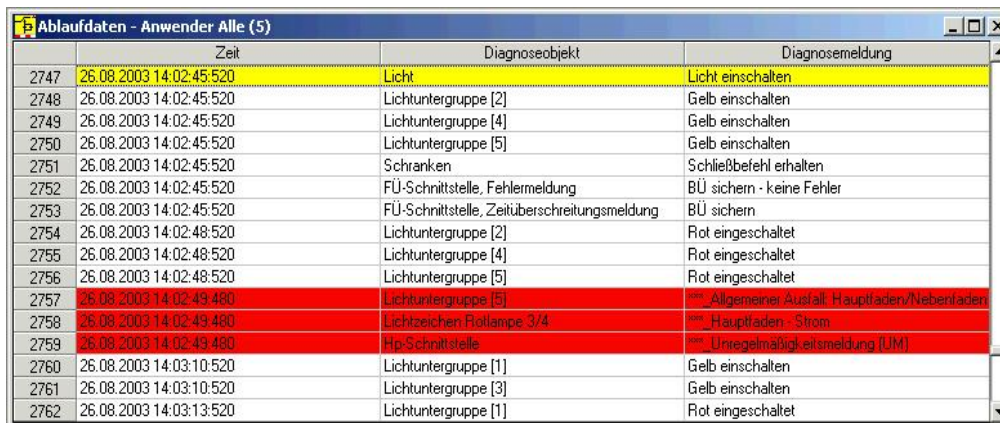


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PINTSCH diagnosis software for level-crossing control systems

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.



The screenshot shows a window titled 'Ablaufdaten - Anwender Alle (5)'. It contains a table with three columns: 'Zeit', 'Diagnoseobjekt', and 'Diagnosemeldung'. The table lists various diagnostic events with their corresponding times, objects, and messages. Some rows are highlighted in yellow, and others in red.

	Zeit	Diagnoseobjekt	Diagnosemeldung
2747	26.08.2003 14:02:45:520	Licht	Licht einschalten
2748	26.08.2003 14:02:45:520	Lichtuntergruppe [2]	Gelb einschalten
2749	26.08.2003 14:02:45:520	Lichtuntergruppe [4]	Gelb einschalten
2750	26.08.2003 14:02:45:520	Lichtuntergruppe [5]	Gelb einschalten
2751	26.08.2003 14:02:45:520	Schranken	Schließbefehl erhalten
2752	26.08.2003 14:02:45:520	FÜ-Schnittstelle, Fehlermeldung	BÜ sichern - keine Fehler
2753	26.08.2003 14:02:45:520	FÜ-Schnittstelle, Zeitüberschreitungs meldung	BÜ sichern
2754	26.08.2003 14:02:48:520	Lichtuntergruppe [2]	Rot eingeschaltet
2755	26.08.2003 14:02:48:520	Lichtuntergruppe [4]	Rot eingeschaltet
2756	26.08.2003 14:02:48:520	Lichtuntergruppe [5]	Rot eingeschaltet
2757	26.08.2003 14:02:49:480	Lichtuntergruppe [5]	*** Allgemeiner Ausfall: Hauptfaden/Nebenfaden
2758	26.08.2003 14:02:49:480	Lichtzeichen Rotlampe 3/4	*** Hauptfaden - Strom
2759	26.08.2003 14:02:49:480	Hp-Schnittstelle	*** Unregelmäßigkeitsmeldung (UM)
2760	26.08.2003 14:03:10:520	Lichtuntergruppe [1]	Gelb einschalten
2761	26.08.2003 14:03:10:520	Lichtuntergruppe [3]	Gelb einschalten
2762	26.08.2003 14:03:13:520	Lichtuntergruppe [1]	Rot eingeschaltet

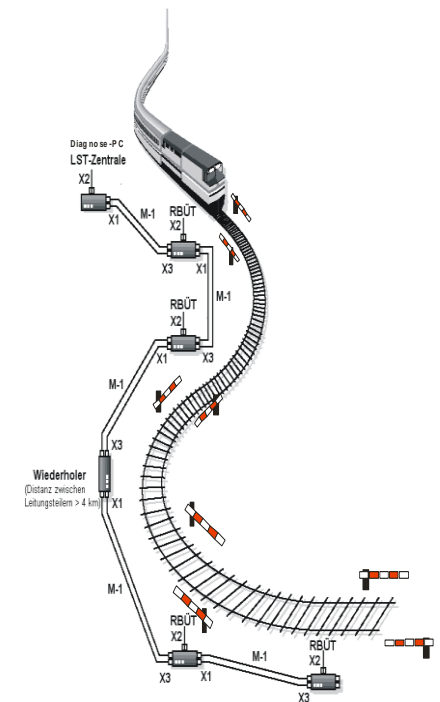
Subject to technical changes

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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 (Global System for Mobile Communications – Railway)** 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 Alpeee Wies	✓	14:29:04:320 07.10.2002	Anlage Ok		Übertragung Online
10	BÜ 89,9 Triebblings	✓	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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