



Newsletter 2009-3

An example of customer-specific extra functionality for DS-6 systems, provided by special software

It is now possible to extend the DS-6 software by extra functions that go beyond DS-6 standard functionality. This is accomplished by using IO modules. The following section provides an example.

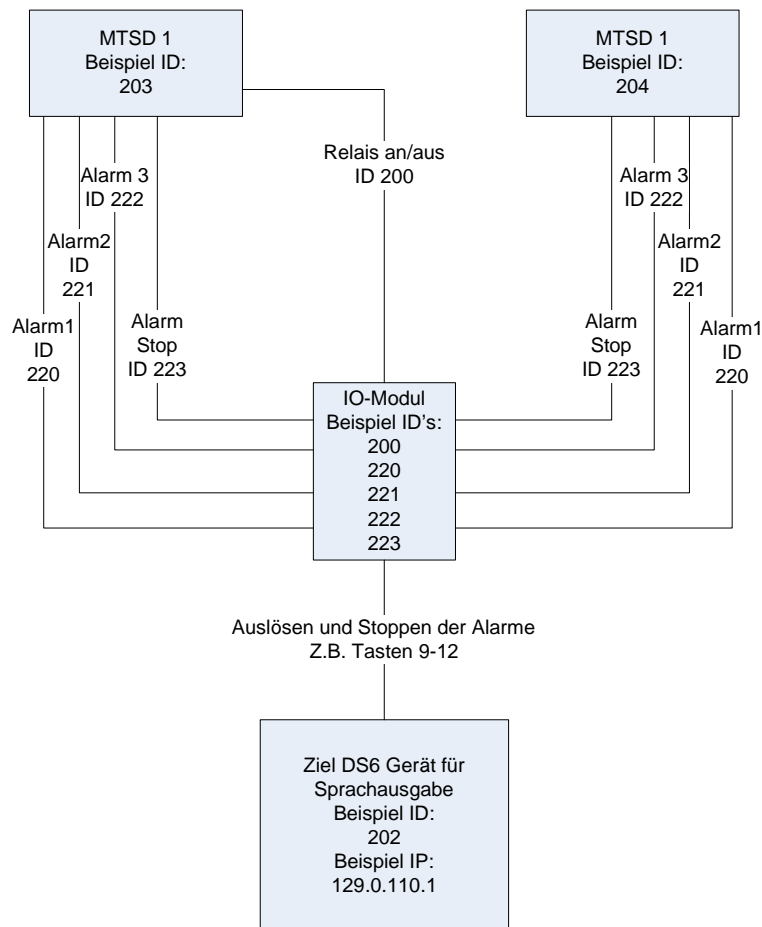
Alarm software for customized application

The software makes it possible for three different alarms to be set off from a maximum of two MTSD. Five virtual DS 6 addresses are provided by the IO module : three addresses for alarm release and one address for alarm stop.

A fifth address enables users to activate / deactivate a relay located in the IO module.

The alarm will then be induced on the MTSD by the virtual address in the IO module. Finally, the alarm at the target voice memory (USB stick) will be set off by the IO module.

Illus. 1: Alarm control



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NEW! Crane communication over WireLess LAN in DS-6 systems

Inside industrial plants, simple and state-of-the-art communication between cranes located in factory buildings and ground control units is a must.

Normally, to ensure safe voice data transmission, a separate wireless LAN connection has to be employed on the cranes for purposes of voice communication – in addition to other data connections over WireLess LAN, such as video. To achieve this, an existing IP transmission network can be used, so that communication takes place via VLAN connections. This is where, due to the high level of ambient noise, intercom technology comes into play. For although the crane operator needs both hands to drive his crane, he must be able to establish voice communication with a number of target locations.

As a result, a number of different devices are used on the cranes. Each crane is equipped with a digital DS-6 panel mounted call station including keypads with 12 keys, a foot switch, a built-in loudspeaker as well as a built-in microphone.

Radio communication between cranes takes place over WireLess LAN via Access Points.

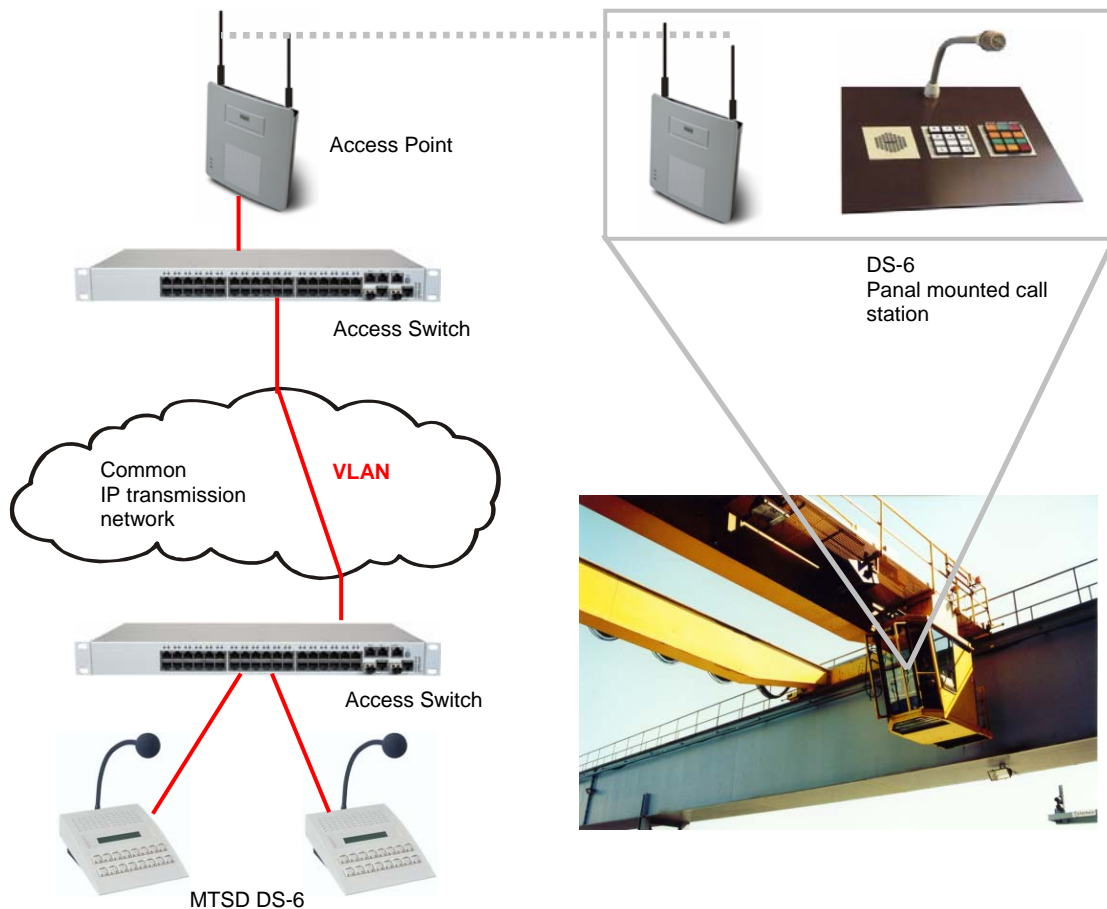
An Access Point is an interface that converts Ethernet to WireLess LAN and vice versa.

For example, the "AIR-AP 1231 G" CISCO access point can be used with a standardized transmission frequency of 2.4 GHz and a maximum transmission rate of 54 Mbit/s. If the view is not blocked, a distance of approximately 100 metres is pre-defined (specified).

Please note that there needs to be a direct line of sight (visibility) between the access point on the crane and the access point on the ground.

This is why the access point must be installed at a height that corresponds to that of the crane track (measured from floor to ceiling).

However, as a result of the continuous data traffic required to monitor the wireless LAN, greater distances tend to negatively impact the usable transmission rate.



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Our weatherproof analogous Ex-Call Station in overview

The explosion-proof, Weatherproof Digital WFD Call Stations provide direct intercom connections to other call stations and PA loudspeaker announcements in potentially explosive environments. When the robust two-way toggle keys are pressed, they activate contact less opto-couplers, which make them suitable for permanent use in aggressive, moist and dusty environments, especially in areas that are enriched with explosive gases and dust.

The call stations are designed for wall mounting and are certified according to the newest ATEX regulations.



**WFA-EX Call Station,
1 two-way toggle**
Art. No. 1 575 8



**WFA-EX Call Station,
2 two-way toggles**
Art. No. 1 576 9



**WFA-EX Call Station,
3 two-way toggles**
Art. No. 1 577 0

**as above, but with
auxiliary amplifier¹⁾**
Art. No. 1 578 1

**as above, but with
auxiliary amplifier¹⁾**
Art. No. 1 579 2



**as above, but with
auxiliary amplifier¹⁾**
Art. No. 1 580 4

Equipment Features

- dust- and watertight, fiberglass-reinforced polyester enclosure
- two-way toggle keys with opto-coupler, 2 lines each
- active components pressure-proof enclosed
- integrated pressure chamber loudspeaker and electret microphone
- connector for Auxiliary Amplifier

Functional Features

- key-controlled line selection
- line functions configurable from control centre
- can be switched to low volume (nighttime operation)
- LED indication of incoming call and line busy
- prioritisation

Art. No.	1 575 8 / 1 578 1	1 576 9 / 1 579 2	1 577 0 / 1 580 4
Physical Data			
Number of two-way toggle keys	1	2	3
Weight (without auxiliary amplifier)	approx. 6.5 kg		
Enclosure dimensions (H x W x D)	500 x 120 x 180 mm		
Enclosure colour	pure orange (RAL 2004)		
Electrical Data			
Supply voltage range	48-60 V DC		
Max. quiescent current	10 mA		
Max. operating current	approx. 50 mA		
Amplifier power rating	1 W		
Min. input voltage for rated power	150 mV		
Frequency range	300 Hz to 10 kHz (-3 to ±1 dB)		
Environmental Conditions			
Climate class per DIN EN 60721-3-3	3K6 (altered temperature range -20° to +70° C)		
Protection class per DIN EN 60529 / IEC 529	IP66		
Ex-proof certification per EG-RL 94/9/EG	 II 2 G EEx d e ib IIC T4 (PTB 01 ATEX 2070)  II 2 D IP66 T135°C (PTB EX 05-25008)		

¹⁾ The 25-W Auxiliary Amplifier (Art. No. 1 570 3) is installed.

Father Information to our call station offer, do you find in our homepage under „Product Catalogue Call Station“!



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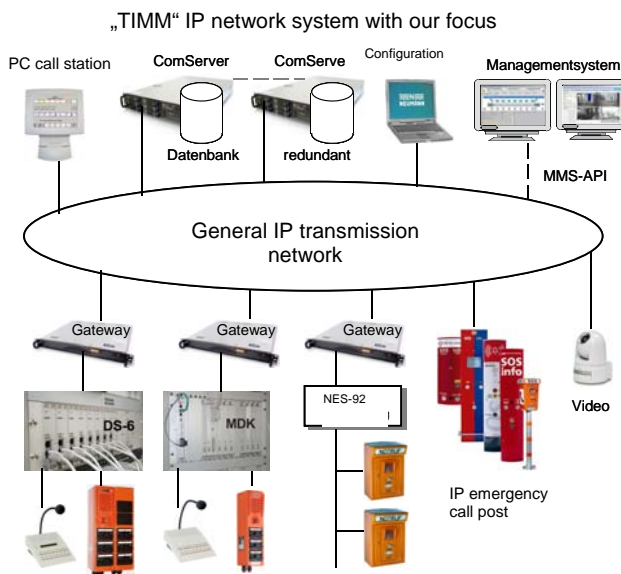
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Training courses July to December 2009 Innovative systems

“TIMM“, our communication system for common IP networks with a focus on intercom, public address, alarm, emergency call and video technology with central monitoring via communication server.



Our topics:

Information sessions

- Corporate strategy
- TIMM, the communication system of the future
- Surplus value of IP system technology in standardized transmission networks
- Grandfather clauses protecting analog technology and MDK
- Emergency call and information via centralized IP systems
- IP-based intercom technology using local DS-6 systems
- DS-6 is our answer to industrial requirements
- Presentation of our new system technology, followed by demo

Dates:

23 July 2009	13 October 2009
18 August 2009	17 November 2009
15 September 2009	15 December 2009

Free attendance

- All seminars include required information for:
- service technicians
 - planning engineers
 - project managers

TIMM and DS-6 Training Courses

- An introduction to network technology
- An introduction to centralized IP system technology in standardized transmission networks (TIMM)
- An introduction to local IP system technology (DS-6)
- Presentation of a DS-6 demo system including practical examples for intercom, public address, alarm and telephone connections
- connection diagrams
- Examples of systems, based on existing systems
- An introduction to the “DS-6 Config” configuration program
- Exercise course: How to configure a demo system using “DS-6 Config”
- How to use the monitor program for locating errors

Three-day training courses:

28 July 2009	to	30 July 2009
25 August 2009	to	27 August 2009
29 September 2009	to	01 October 2009
27 October 2009	to	29 October 2009
24 November 2009	to	26 November 2009

Training charges for each participant: 980 €

MDK basic training courses

- Hardware system design
- Customized systems
- Service and protocol interface
- Data backup

Three-day training courses:

08 September 2009	to	10 September 2009
06 October 2009	to	08 October 2009

Training charges for each participant: 1,238 €

MDK configuration training courses

- An introduction to the MDKLIST configuration program
- Exercise course: How to use the MDKLIST configuration program, including intercom, public address, alarm and telephone functions

Four training courses:

09 November 2009	to	12 November 2009
30 November 2009	to	03 Dezember 2009

Training charges for each participant: 1,532 €

All seminars will be held at:

ms Neumann Elektronik GmbH
Lahnstraße 30
45478 Mülheim an der Ruhr

Course Instructor: Bernhard Ripholz
Phone: 0208 5995 294
E-mail: bripholz@neumann-elektronik.com



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