

- Transmission of diagnostic data from up to 8 FF H1 segments
- Diagnosis of the physical layer values: voltage / current, jitter, noise, signal level, unbalance
- Simple integration into asset management systems via FF H1 and EDD or DTM
- Diagnostics handling acc. to NAMUR NE 107 and FF-912
- LEDs for diagnostics and operation
- Various bus-Carriers for 4 and 8 segments, simplex and redundant available







The Diagnosis Communication Module (DCM) 9415 transmits fieldbus diagnostics data, measured by the Fieldbus Power Supply 9412, via FOUNDATION™ fieldbus H1 to a host and / or asset management system.

The Fieldbus Power Supplies are continously measuring all the relevant physical layer values acc. to NAMUR NE 123. The DCM collects the values from up to 8 segments and transmits the diagnostics information via one of the installed FF H1 segments or alternatively via a dedicated diagnostic segment.

The integration into host and asset management tools is done via an EDD, offering sophisticated possibilities for setting alarm and pre-alarm levels, obtaining life maintenance data from the bus and creating detailed reports.

| | ATEX / IECEx | | | | | |
|-----------------|--------------|---|---|----|----|----|
| Zone | 0 | 1 | 2 | 20 | 21 | 22 |
| Ex interface | | | х | | | |
| Installation in | | | Х | | | |



WebCode 9415A

Diagnosis communication module (DCM)

Series 9415



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|-----|-------|---|----|---|---|
| Sal | lecti | n | Та | h | ۵ |

| Version | Description | Order number |
|--|---|----------------|
| Diagnosis communication module (DCM) | transmission of diagnostics data from up to 8 via FF H1 | 9415/00-310-42 |
| Note | installation in bus-Carriers with 8 (simplex / redundant) or 16 (redundant) slots | 8 |

| Note | installation in bus-Carriers with 8 (simplex / redundant) or 16 (redundant) slots | | | | |
|---|---|--|--|--|--|
| Explosion Protection | | | | | |
| Global (IECEx) | | | | | |
| Gas | IECEx BVS 11.0054X | | | | |
| | Ex nA [ic] IIC T4 Gc | | | | |
| Europe (ATEX) | | | | | |
| Gas | BVS 11 ATEX E 104 X | | | | |
| | | | | | |
| Certifications and cert | ificates | | | | |
| Certificates | IECEx, ATEX, Canada (cFM), Kazakhstan (TR), Russia (TR), USA (FM), Belarus (TR) | | | | |
| Ship approval | DNV | | | | |
| Further parameters | | | | | |
| Installation | in Zone 2, Div. 2 and in the safe area | | | | |
| Safety data | | | | | |
| Max. permissible voltage U _i | 32 V | | | | |
| Internal capacitance | C _i negligible | | | | |
| | | | | | |

Technical Data

Internal inductance Li

10 µH

| recillical Data | |
|------------------------------------|--|
| Electrical data | |
| Auxiliary power | |
| Connection | from the bus-Carriers Series 9419 |
| Nominal voltage U _N | 24 V DC |
| Voltage range | 18 32 V DC |
| Current consumption | 40 mA at 24 V DC |
| Galvanic separation | |
| Fieldbus to Power Supply | 1500 V AC (test voltage) |
| Indication | |
| Operation indication | LED "PWR", green |
| Function Indication | LED "ERR", red (flashes = DCM maintenance required, ON = failure DCM) |
| Segment status | LED "ERR", red (flashes = segment maintenance required, ON = failure segment) |
| Diagnostics interface | |
| For connection to | ISbus Fieldbus Power Supplies 9412 (via bus-Carrier 9419) |
| Physical layer | via Fieldbus Power Supplies 9412: |
| measurement (acc. to NAMUR NE 123) | Segment: voltage / current, jitter, signal level, noise, balance, current and voltage Fieldbus devices: jitter, signal level |
| Further Data | Serial number, type, version revision for DCM, Fieldbus Power Supplies and bus-Carrier. |
| Fieldbus interface | |
| For connection to | Host and Asset Management Systems with H1 interface |
| Specification | FOUNDATION™ fieldbus H1 (IEC 61158-2) |
| Data transmission | Via segment 1 4 / 8 (depends on bus-Carrier), selectable Alternative: via dedicated diagnosis segment |
| Voltage range | 9 32 V DC |
| Current consumption | 13 mA |
| Functions | |
| FF stack | Softing |
| Technology | EDD and DTM |
| | |

Resource Block for device data DCM, Fieldbus Power Supply and bus-Carrier 10 DI function blocks for status information / common error per segment

FF H1 events acc. to FF-912 / NAMUR NE 107 (Field Diagnostics Alarms)

9 Transducer blocks for detailed information: physical layer values, HI-alarm, HIHI-alarm, LO-alarm, LOLO-alarm, status DCM, status segment, status fieldbus devices

A5/2 Fieldbus Technology

Parameter data

Alerts and status

Firmware update

Cyclic data transmission

Acyclic data transmission

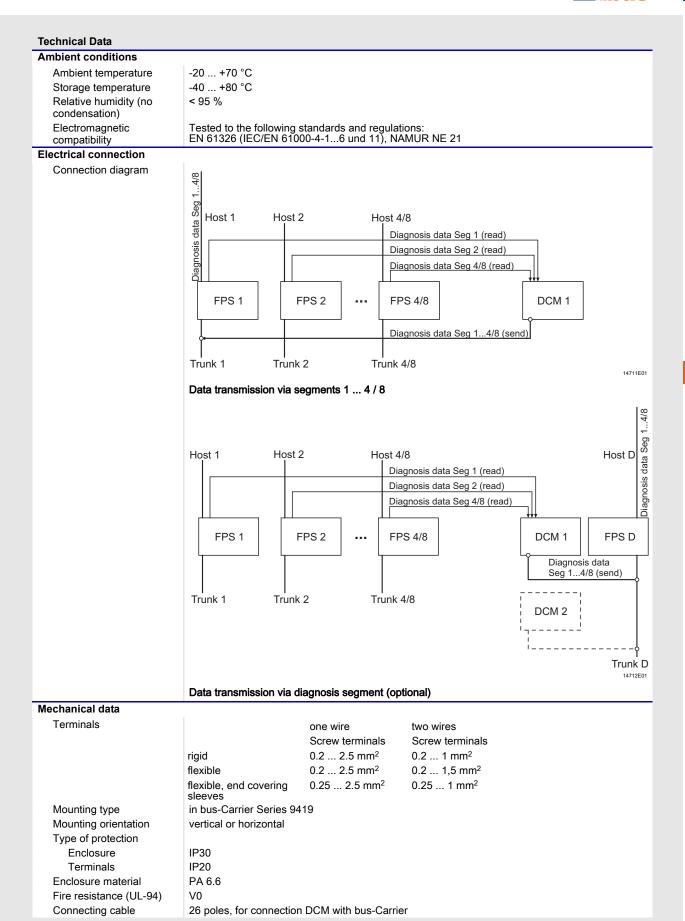
RS232 via PC

Diagnosis communication module (DCM)

Series 9415







Diagnosis communication module (DCM)

Series 9415



Accessories and Spare Parts

| Designation | Figure | Description | Art. no. |
|--------------------------|----------|---|----------|
| Fieldbus Power Supply | 12783E00 | fieldbus power supply and diagnostics | 200586 |
| | 12809E00 | fieldbus power supply, diagnostics and adjustable warning level | 200588 |
| bus-Carrier | 14402E00 | bus-Carrier for 4 segments, redundant | 208746 |
| | 14402E00 | bus-Carrier for 8 segments, simplex | 208745 |
| | 14403E00 | bus-Carrier for 8 segments, redundant | 208747 |

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.

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