

SIMATIC DP, INTERFACE MODULE IM151-2 FOR ET200iS, INCL. POWER BUS TERMINATING MODULE



Power loss	
Power loss, typ.	0.5 W
Time stamping	
Description	for each digital input, digital input module, total ET 200iS
Accuracy	10 ms
Number of message buffers	15
Messages per message buffer	20
Number of stampable digital inputs, max.	128
Time format	RFC 1119 Internet (ISP)
Time resolution	1 ms
Time interval for transmitting the message buffer if a message is present	1 s
Time stamp on signal change	rising / falling edge as signal entering or exiting
Interfaces	
Interface physics, RS 485	Yes; With barrier
PROFIBUS DP	
• Node addresses	1 to 125 permitted
• Transmission rate, max.	1.5 Mbit/s; 9,6 / 19,2 / 45,45 / 93,75 / 187,5 / 500 kbit/s; 1,5 Mbit/s

- |   |                                  |
|---|----------------------------------|
| • Equidistance  | No                               |
| • SYNC capability                                     | Yes                              |
| • FREEZE capability                                   | Yes                              |
| • Direct data exchange (slave-to-slave communication) | Yes; Slave to slave as publisher |

### Protocols

Bus protocol/transmission protocol	PROFIBUS DP
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### Interrupts/diagnostics/status information

Alarms	Yes
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Diagnostic functions	Yes
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#### Alarms

- |                                |     |
|--------------------------------|-----|
| • acyclic function, interrupts | Yes |
| • acyclic function, parameters | Yes |

#### Diagnostics indication LED

- |   |     |
|---|-----|
| • Bus fault BF (red)                        | Yes |
| • Group error SF (red)                      | Yes |
| • Monitoring 24 V voltage supply ON (green) | Yes |

### Potential separation

between backplane bus and electronics	No
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between electronic block and PROFIBUS DP	Yes
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### Isolation

Isolation tested with	500 V DC
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### Standards, approvals, certificates

#### Use in hazardous areas

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|---|--|
| • Type of protection acc. to EN 50020 (CENELEC) | II2G EEx ib IIC T4, Tu = -20 °C to +60 °C  |
| • Type of protection acc. to FM                 | FM 3611: Class I, Division 2, Group A, B, C, D; Class I, Zone 2 or FM 3610: Class I, Zone 1, Tu = -20 °C to +60 °C |

### Dimensions

Width	30 mm
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Height	81 mm
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Depth	76 mm
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### Weights

Weight, approx.	80 g
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**last modified:** 03/11/2017 