



SIMATIC DP, ET 200M INTERFACE IM 153-2 HIGH FEATURE FOR MAX. 12 S7-300 MODULES, WITH REDUNDANCY, TIME STAMPING FIT FOR ISOCHRONONE MODE NEW FEATURES: 12 MODULES / STATION SLAVE INITIATIVE FOR SWITCHES AND DRIVE ES EXTENDED DATA FOR HART SECONDARY VARIABLES OPERATON WITH 64PT MODULES EXTENDES TIMESTAMPS WITH 32 SIGNALS / SLOT +++ SEE COMPATIBILITY NOTES IN IN THE MANUAL +++

## General information

Vendor identification (VendorID)	801Eh
----------------------------------	-------

## Supply voltage

Rated value (DC)	24 V
<ul style="list-style-type: none"> <li>• 24 V DC</li> </ul>	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
permissible range (ripple included), lower limit (DC)	20.4 V
permissible range (ripple included), upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	2,5 A

## Mains buffering

<ul style="list-style-type: none"> <li>• Mains/voltage failure stored energy time</li> </ul>	5 ms
--	------

## Input current

Current consumption, max.	650 mA; with 24 V DC supply
Inrush current, typ.	3 A
$I^2t$	0.1 A <sup>2</sup> ·s

## Output current

for backplane bus (5 V DC), max.	1.5 A
<b>Power loss</b>	
Power loss, typ.	5.5 W
<b>Address area</b>	
Addressing volume	
• Inputs	244 byte
• Outputs	244 byte
<b>Hardware configuration</b>	
Number of modules per DP slave interface, max.	12
<b>Time stamping</b>	
Accuracy	1 ms; 1ms at up to 8 modules; 10ms at up to 12 modules
Number of message buffers	15
Messages per message buffer	20
Number of stampable digital inputs, max.	128; Max. 128 signals/station; max. 32 signals/slot
Time format	RFC 1119
Time resolution	0.466 ns
Time interval for transmitting the message buffer if a message is present	1 000 ms
Time stamp on signal change	rising / falling edge as signal entering or exiting
<b>Interfaces</b>	
Interface physics, RS 485	Yes
Interface physics, FOC	No
<b>PROFIBUS DP</b>	
• Node addresses	1 to 125 permitted
• automatic detection of transmission rate	Yes
• Output current, max.	70 mA
• Transmission rate, max.	12 Mbit/s
• Transmission procedure	RS 485
• SYNC capability	Yes
• FREEZE capability	Yes
• Direct data exchange (slave-to-slave communication)	Yes; as publisher with all IO, as subscriber with F-IO only
• Connector type	9-pin sub D
<b>1. Interface</b>	
DP slave	
• GSD file	SI05801E.GSG
• automatic baud rate search	Yes
<b>Protocols</b>	
Bus protocol/transmission protocol	PROFIBUS DP to EN 50170

Isolation	
Isolation tested with	Isolation voltage 500 V
Degree and class of protection	
Degree of protection acc. to EN 60529	Yes
<ul style="list-style-type: none"> <li>• IP20</li> </ul>	
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> <li>• min.</li> </ul>	0 °C
<ul style="list-style-type: none"> <li>• max.</li> </ul>	60 °C
Air pressure acc. to IEC 60068-2-13	
<ul style="list-style-type: none"> <li>• Installation altitude above sea level, max.</li> </ul>	3 000 m
Configuration	
Configuration software	
<ul style="list-style-type: none"> <li>• STEP 7</li> </ul>	Yes; STEP 7 / COM PROFIBUS / non-Siemens tools via GSD file
Dimensions	
Width	40 mm
Height	125 mm
Depth	117 mm
Weights	
Weight, approx.	360 g
<b>last modified:</b>	12/22/2016