





WIRELESS PROFIBUS - DATAEAGLE 3000

Your benefits

The [DATAEAGLE 3000](#) series was particularly designed for transparent data transmission of PROFIBUS DP applying various radio technologies. All devices featuring a PROFIBUS DP interface may be connected via radio. Our patented filter technology guarantees a highly available and reliable radio connection. [Read our white paper „Wireless 101“ to learn more about our patented wireless technology.](#)

- o Patented filter technology
- o PROFIBUS DP interface
- o PROFIsafe
- o Plug and Play – No device configuration required
- o Up to 3000 meter range
- o Transmission speed up to 1.5 Mbit/s



APPLICATION EXAMPLES

Versatile

We have been successfully equipping industrial plants with our radio data transmission system for over 35 years. On our website you will find numerous [practical examples](#) and an overview of our [industry sectors with reports about wireless solutions.](#)

- o Substitute of slip rings
- o Substitute of trailing cables and cable chains
- o Substitute of optical data transceivers
- o Crane systems
- o Warehouse systems
- o Automotive industry
- o Transport vehicles
- o Water, wastewater, waste and feedstock industry
- o Engineering
- o Lifts, inclined lifts and cable cars
- o Oil and gas industry
- o Steel and cement plants
- o Stage technology



WIRELESS PROFIBUS - DATAEAGLE 3000

The differences at a glance

Product	Frequency	Typical Distance	Max. PROFIBUS DP Transmission rate	Max. Radio Slaves	Max. PROFIBUS DP Slaves	PROFIsafe	Protection class
Classic 3712A	2,4 GHz	300 m	1,5 MBit/s	4	8	Yes	IP20
Compact 3712A	2,4 GHz	300 m	1,5 MBit/s	4	8	Yes	IP20
X-treme 3712A	2,4 GHz	300 m	1,5 MBit/s	4	8	Yes	IP65
Classic 3713A	2,4 GHz	300 m	1,5 MBit/s	4	4	No	IP20
Compact 3713A	2,4 GHz	300 m	1,5 MBit/s	4	4	No	IP20
X-treme 3713A	2,4 GHz	300 m	1,5 MBit/s	4	4	No	IP65
Classic 3715A	2,4 GHz	300 m	1,5 MBit/s	1	4	No	IP20
Compact 3715A	2,4 GHz	300 m	1,5 MBit/s	1	4	No	IP20
X-treme 3715A	2,4 GHz	300 m	1,5 MBit/s	1	4	No	IP65
Compact 3710 Starterkit	2,4 GHz	300 m	187,5 kBit/s	1	1	No	IP20
X-treme 3710 Starterkit	2,4 GHz	300 m	187,5 kBit/s	1	1	No	IP65
Compact 3333A Compact 3343A	869 MHz 915 MHz	3000 m	1,5 MBit/s	4	4	No	IP20
X-treme 3333A X-treme 3343A	869 MHz 915 MHz	3000 m	1,5 MBit/s	4	4	No	IP65
Classic 3715A-MPI	2,4 GHz	300 m	187,5 kBit/s - 1,5 Mbit/s	1	4	No	IP20
Compact 3715A-MPI	2,4 GHz	300 m	187,5 kBit/s - 1,5 Mbit/s	1	4	No	IP20
X-treme 3715A-MPI	2,4 GHz	300 m	187,5 kBit/s - 1,5 Mbit/s	1	4	No	IP65



DATAEAGLE CLASSIC 3712A

Technical data



○ GENERAL

Voltage supply	24 V DC
Connection Voltage supply	Terminal clamps
Power consumption	100 mA
Fixing	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	650 g
Width	233 mm
Height	106 mm
Depth	39 mm
Color	Black

○ RADIO TECHNOLOGY

Frequency	2,4GHz Bluetooth
Transmitting power	100 mW (EIRP)
Max. Number radio slaves	4
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

○ INTERFACE

Max. PROFIBUS DP Transmission rate	1.5 MBit/s
PROFIBUS DP Connection	9 pol. SUB-D
Max. Number PROFIBUS DP Slaves	8
PROFIsafe	Yes

○ ORDER NUMBER

Master	11155
Slave	11156

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DATAEAGLE COMPACT 3712A

Technical data



o GENERAL

Voltage supply	24 V DC
Connection Voltage supply	Terminal clamps
Power consumption	100 mA
Fixing	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	130 g
Width	22,5 mm
Height	99 mm
Depth	114,5 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Transmitting power	100 mW (EIRP)
Max. Number radio slaves	4
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

o INTERFACE

Max. PROFIBUS DP Transmission rate	1.5 MBit/s
PROFIBUS DP Connection	9 pol. SUB-D
Max. Number PROFIBUS DP Slaves	8
PROFIsafe	Yes

o ORDER NUMBER

Master	11168
Slave	11169

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DATAEAGLE X-TREME 3712A

Technical data



o GENERAL

Voltage supply	24 V DC
Connection Voltage supply	M12, A-coded
Power consumption	100 mA
Fixing	4-hole screw fastening
Protection class	IP65
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	280 g
Width	88 mm
Height	120 mm
Depth	42 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Transmitting power	100 mW (EIRP)
Max. Number radio slaves	4
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

o INTERFACE

Max. PROFIBUS DP Transmission rate	1.5 MBit/s
PROFIBUS DP Connection	M12, B-coded
Max. Number PROFIBUS DP Slaves	8
PROFIsafe	Yes

o ORDER NUMBER

Master	11326
Slave	11327

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DATAEAGLE CLASSIC 3713A

Technical data



○ GENERAL

Voltage supply	24 V DC
Connection Voltage supply	Terminal clamps
Power consumption	100 mA
Fixing	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	650 g
Width	233 mm
Height	106 mm
Depth	39 mm
Color	Black

○ RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Transmitting power	100 mW (EIRP)
Max. Number radio slaves	4
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

○ INTERFACE

Max. PROFIBUS DP Transmission rate	1.5 MBit/s
PROFIBUS DP Connection	9 pol. SUB-D
Max. Number PROFIBUS DP Slaves	4
PROFIsafe	No

○ ORDER NUMBER

Master	11152
Slave	11153

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DATAEAGLE COMPACT 3713A

Technical data



o GENERAL

Voltage supply	24 V DC
Connection Voltage supply	Terminal clamps
Power consumption	100 mA
Fixing	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	130 g
Width	22,5 mm
Height	99 mm
Depth	114,5 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Transmitting power	100 mW (EIRP)
Max. Number radio slaves	4
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

o INTERFACE

Max. PROFIBUS DP Transmission rate	1.5 MBit/s
PROFIBUS DP Connection	9 pol. SUB-D
Max. Number PROFIBUS DP Slaves	4
PROFIsafe	No

o ORDER NUMBER

Master	11164
Slave	11165

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DATAEAGLE X-TREME 3713A

Technical data



o GENERAL

Voltage supply	24 V DC
Connection Voltage supply	M12, A-coded
Power consumption	100 mA
Fixing	4-hole screw fastening
Protection class	IP65
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	280 g
Width	88 mm
Height	120 mm
Depth	42 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Transmitting power	100 mW (EIRP)
Max. Number radio slaves	4
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

o INTERFACE

Max. PROFIBUS DP Transmission rate	1.5 MBit/s
PROFIBUS DP Connection	M12, B-coded
Max. Number PROFIBUS DP Slaves	4
PROFIsafe	No

o ORDER NUMBER

Master	11324
Slave	11325

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DATAEAGLE CLASSIC 3715A

Technical data



○ GENERAL

Voltage supply	24 V DC
Connection Voltage supply	Terminal clamps
Power consumption	100 mA
Fixing	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	650 g
Width	233 mm
Height	106 mm
Depth	39 mm
Color	Black

○ RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Transmitting power	100 mW (EIRP)
Max. Number radio slaves	1
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

○ INTERFACE

Max. PROFIBUS DP Transmission rate	1.5 MBit/s
PROFIBUS DP Connection	9 pol. SUB-D
Max. Number PROFIBUS DP Slaves	4
PROFIsafe	No

○ ORDER NUMBER

Master	11150
Slave	11151

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DATAEAGLE COMPACT 3715A

Technical data



o GENERAL

Voltage supply	24 V DC
Connection Voltage supply	Terminal clamps
Power consumption	100 mA
Fixing	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	130 g
Width	22,5 mm
Height	99 mm
Depth	114,5 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Transmitting power	100 mW (EIRP)
Max. Number radio slaves	1
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

o INTERFACE

Max. PROFIBUS DP Transmission rate	1,5 MBit/s
PROFIBUS DP Connection	9 pol. SUB-D
Max. Number PROFIBUS DP Slaves	4
PROFIsafe	No

o ORDER NUMBER

Master	11160
Slave	11161

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DATAEAGLE X-TREME 3715A

Technical data



○ GENERAL

Voltage supply	24 V DC
Connection Voltage supply	M12, A-coded
Power consumption	100 mA
Fixing	4-hole screw fastening
Protection class	IP65
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	280 g
Width	88 mm
Height	120 mm
Depth	42 mm
Color	Black

○ RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Transmitting power	100 mW (EIRP)
Max. Number radio slaves	1
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

○ INTERFACE

Max. PROFIBUS DP Transmission rate	1,5 MBit/s
PROFIBUS DP Connection	M12, B-coded
Max. Number PROFIBUS DP Slaves	4
PROFIsafe	No

○ ORDER NUMBER

Master	11320
Slave	11321

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COMPACT 3710 Starterset

Technical data



o GENERAL

Voltage supply	24 V DC
Connection Voltage supply	Terminal clamps
Power consumption	100 mA
Fixing	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	130 g
Width	22,5 mm
Height	99 mm
Depth	114,5 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Transmitting power	100 mW (EIRP)
Max. Number radio slaves	1
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

o INTERFACE

Max. PROFIBUS DP Transmission rate	187,5 kBit/s
PROFIBUS DP Connection	9 pol. SUB-D
Max. Number PROFIBUS DP Slaves	1
PROFIsafe	No

o ORDER NUMBER

11172

o SCOPE OF DELIVERY

1 x DATAEAGLE Compact 3717-A Master
 1 x DATAEAGLE Compact 3717-A Slave
 2 x omnidirectional antenna, 3 dB with magnetic base and connecting cable (5 m)

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X-TREME 3710 Starterset

Technical data



○ GENERAL

Voltage supply	24 V DC
Connection Voltage supply	M12, A-coded
Power consumption	100 mA
Fixing	4-hole screw fastening
Protection class	IP65
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	280 g
Width	88 mm
Height	120 mm
Depth	42 mm
Color	Black

○ RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Transmitting power	100 mW (EIRP)
Max. Number radio slaves	1
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

○ INTERFACE

Max. PROFIBUS DP Transmission rate	187,5 kBit/s
PROFIBUS DP Connection	M12, B-coded
Max. Number PROFIBUS DP Slaves	1
PROFIsafe	No

○ ORDER NUMBER

11173

○ SCOPE OF DELIVERY

1 x DATAEAGLE X-TREME 3717-A Master
1 x DATAEAGLE X-TREME 3717-A Slave
2 x omnidirectional antenna, 3 dB with magnetic base and connecting cable (5 m)

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DATAEAGLE COMPACT 3333A / 3343A

Technical data



o GENERAL

Voltage supply	24 V DC
Connection Voltage supply	Terminal clamps
Power consumption	200 mA
Fixing	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE (869 MHz), FCC (915MHz)
Weight	160 g
Width	22,5 mm
Height	99 mm
Depth	114,5 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	869 MHz or 915 MHz
Transmitting power	500 mW (EIRP)
Max. Number radio slaves	4
Range Indoor	300 m
Range Outdoor	1000 - 3000 m
Antenna connection	SMA Connection - 50 Ohm

o INTERFACE

Max. PROFIBUS DP Transmission rate	1.5 MBit/s
PROFIBUS DP Connection	9 pol. SUB-D
Max. Number PROFIBUS DP Slaves	4
PROFIsafe	No

o ORDER NUMBER

DATAEAGLE Compact 3333A (869 MHz)

Master	11142
Slave	11143

o ORDER NUMBER

DATAEAGLE Compact 3343A (915 MHz)

Master	11148
Slave	11149

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DATAEAGLE X-TREME 3333A / 3343A

Technical data



○ GENERAL

Voltage supply	24 V DC
Connection Voltage supply	M12, A-coded
Power consumption	200 mA
Fixing	4-hole screw fastening
Protection class	IP65
Temperature range	-20...+60 °C
Conformity	CE (869 MHz), FCC (915MHz)
Weight	300 g
Width	88 mm
Height	120 mm
Depth	42 mm
Color	Black

○ RADIO TECHNOLOGY

Frequency	869 MHz or 915 MHz
Transmitting power	500 mW (EIRP)
Max. Number radio slaves	4
Range Indoor	300 m
Range Outdoor	1000 - 3000 m
Antenna connection	SMA Connection - 50 Ohm

○ INTERFACE

Max. PROFIBUS DP Transmission rate	1.5 MBit/s
PROFIBUS DP Connection	M12, B-coded
Max. Number PROFIBUS DP Slaves	4
PROFIsafe	No

○ ORDER NUMBER

DATAEAGLE X-treme 3333A (869 MHz)

Master	11370
Slave	11371

○ ORDER NUMBER

DATAEAGLE X-treme 3343A (915 MHz)

Master	11330
Slave	11331

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DATAEAGLE CLASSIC 3715A-MPI

Technical data



○ GENERAL

Voltage supply	24 V DC
Connection Voltage supply	Terminal clamps
Power consumption	100 mA
Fixing	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	650 g
Width	233 mm
Height	106 mm
Depth	39 mm
Color	Black

○ RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Transmitting power	100 mW (EIRP)
Max. Number radio slaves	1
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

○ INTERFACE

Transmission rate	187,5 kBit/s (typical) / 1,5 Mbit/s (max.)
Connection	9 pol. SUB-D
Max. Number Radio Slaves	4
MPI	Yes

○ ORDER NUMBER

Master	11150
Slave	11151

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DATAEAGLE COMPACT 3715A-MPI

Technical data



o GENERAL

Voltage supply	24 V DC
Connection Voltage supply	Terminal clamps
Power consumption	100 mA
Fixing	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	130 g
Width	22,5 mm
Height	99 mm
Depth	114,5 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Transmitting power	100 mW (EIRP)
Max. Number radio slaves	1
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

o INTERFACE

Transmission rate	187,5 kBit/s (typical) / 1,5 Mbit/s (max.)
Connection	9 pol. SUB-D
Max. Number Radio Slaves	4
MPI	Yes

o ORDER NUMBER

Master	11162
Slave	11163

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DATAEAGLE X-TREME 3715A-MPI

Technical data



○ GENERAL

Voltage supply	24 V DC
Connection Voltage supply	M12, A-coded
Power consumption	100 mA
Fixing	4-hole screw fastening
Protection class	IP65
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	280 g
Width	88 mm
Height	120 mm
Depth	42 mm
Color	Black

○ RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Transmitting power	100 mW (EIRP)
Max. Number radio slaves	1
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

○ INTERFACE

Transmission rate	187,5 kBit/s (typical) / 1,5 Mbit/s (max.)
Connection	M12, B-coded
Max. Number Radio Slaves	4
MPI	Yes

○ ORDER NUMBER

Master	11322
Slave	11323

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