

Dupline® G	eneral purpos	е	
		Channel generators/interfac	es
Types	G3490	G3496	G3800
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			### <b>##</b>
Dimensions (mm)	77 x 72 x 70	77 x 72 x 70	77 x 144 x 70
Functions	Standard channel generator	Plug & Play RS232/RS485 Interface with built-in protocols for specific PLC brands and Modbus	Controller and Modbus Interface with built-in GSM Modem (option) or external Radio Modem Logger (option)
Housing type	DIN-Rail, H4	DIN-Rail, H4	DIN-Rail, H8
Electrical specifica	itions		
Number of channels	Selectable	Selectable	Selectable
Features/Signal types		Possibility for 3-wire operation with DC-power on the 3°rd wire	4 x Contact/PNP input +4 x PNP 10-30 VDC output 2 x RS232+1 x RS485. Possibility for alarms, monitoring and control via SMS messages
Power Supply	024 = 24 VAC 115 = 115 VAC 230 = 230 VAC 824 = 15-30 VDC	700 = 20-30 VDC	800 = 10-30 VDC 230 = 115-230 VAC
<b>General specificat</b>	rions		
Degree of protection	IP 20	IP 20	IP 20
Operating temperature	-20°C to +50°C	0°C to +50°C	0°C to +50°C
Storage temperature	-50°C to +85°C	-50°C to +85°C	-20°C to +85°C
Remarks		Built-in protocol for specific PLC brands for easy interfacing	Up to 32 controllers can be networked together via RS485 or Ethernet via converter module
References			
Channel Generator	G3490 0000		
Optolink		G3496 0000	
LG		G3496 0001	
GE-Fanuc Mitsubishi		G3496 0002	
MITSUDISTII Omron		G3496 0003 G3496 0004	
Modbus		G3496 0005	
Allen-Bradley		G3496 0006	
Schneider		G3496 0007	
Коуо		G3496 0008	
Matsushita		G3496 0009	
Siemens		G3496 0010	
Toshiba		G3496 0011	
IDEC		G3496 0012	
-GSM Modem, -RS485			G3800 0015
+GSM Modem, -RS485			G3800 1015
-GSM Modem, +RS485			G3800 0016
+GSM Modem, +RS485			G3800 1016
-GSM Modem, +RS485,+Logging +GSM Modem,			G3800 0036
+RS485,+Logging			G3800 1036



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<b>Dupline</b> ®	General pur	oose		
	Channel gener	ators/interfaces	Digital input modules	
Types	G3891	GTI50	G3410 5501	G3420
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Dimensions (mm)	77 x 144 x 70	55 x 70 x 15 mm	77 x 72 x 70	77 x 72 x 70
Functions	Gateways to Fieldbus systems (Profibus-DP, DeviceNet etc.)	Dupline® Modbus RTU Interface module for Text Displays and Touch screens	Dupline® powered transmitter with 8 monostable volt-free contacts	Input module for external supply with optoisolated input
Housing type	DIN-Rail, H8	Closed plastic housing with 25p male sub-D	DIN-Rail, H4	DIN-Rail, H4
<b>Electrical specif</b>	ications			
Number of channels	Selectable		8	8
Features/Signal types		Supports Modbus RTU function code 3 and code 16	Volt-free input contacts	Contact/NPN Voltage (6-265 VAC/DC)
Power Supply	230 = 115/230 VAC	Powered by RS485 port	Powered by Dupline®	024 = 24 VAC 115 = 115 VAC 230 = 230 VAC 800 = 10-30 VDC
General specifi	cations			
Degree of protection	IP 20	IP 20	IP 20	IP 20
Operating temperature	0°C to +50°C	-20°C to +60°C	-20°C to +50°C	-20°C to +50°C
Storage temperature	-20°C to +85°C	-50°C to +85°C	-50°C to +85°C	-50°C to +85°C
Remarks			Low power consumption	
References				
		GT150		
Profibus-DP with C. G.	G3891 0020			
Profibus-DP analogue output multiplex	G3891 0021			
DeviceNet	G3891 0050			
Lonworks	G3891 0051			
Modbus / TCP	G3891 0052			
Profibus-DP passive	G3891 0120			
8 channel			G3410 5501	
Contact/NPN				G3420 5501

G3420 5502

Voltage



#### Digital input modules

Types G4420 7401 G5010 G6391 0240 G8810 2201









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Dimensions (mm)	36 x 85 x 58	49 x 22.5 x 56	34.2 x 37.5 x 36.8	28 x 14 x 10
Functions	Input module for counting of pulses from energy meters, item detectors etc	Dupline powered single input Module	Plug-in module to EM4 or WM22 with 2 SO input contacts for measuring water, gas etc	Small-sized 2-channel monostable transmitter
Housing type	DIN-Rail, H2	DIN-Rail, Mini-E	Plug-in	Plug-in
Electrical specifi	ications			
Number of channels	4	1	2	2
Features/Signal types	Contact input (DIN 43 864). Max. count frequency: 14 Hz	Contact input	Reads actual internal value of total energy and/or reactive energy from EM4/WM22 and transmits to Dupline®. 2 x SO contact input	2 contact inputs for push buttons
Power Supply	230 = 230 VAC 724 = 15-30 VDC	Powered through the Dupline® network	Powered through the Dupline® network and EM4/WM22	Supplied by Dupline®
General specific	cations			
Degree of protection	IP 40	IP 20	IP 20	IP 65
Operating temperature	-20°C to +60°C	-20°C to +50°C	0°C to +50°C	-40°C to +70°C
Storage temperature	-20°C to +85°C	-50°C to +85°C	-20°C to +85°C	-40°C to +70°C
Remarks	Decentral counting. Counter values stored in non-volatile memory			Address coding by GAP 1605
References				
4 channel Counter	G4420 7401			
1 channel		G5010 1106		
2 channels		G5010 2206		G8810 2201
2 channel plug-in module			G6391 0240	



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<b>Dupline</b> ®	General purp	ose			
	Digital I/O modules Digital output modules				
Types	G3440 4443	G3440 5543	G3430 / G3830	G34305545	
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Dimensions (mm)	77 x 72 x 70	77 x 72 x 70	77 x 72 x 70 77 x 144 x 70 (H8)	77 x 72 x 70	
Functions	Combined I/O module for external supply with optoisolated inputs and relay outputs	I/O module for digital signals	Output modules for external supply with isolated outputs	Central relay module with 8 x SPST relays for resistive loads	
Housing type	DIN-Rail, H4	DIN-Rail, H4	DIN-Rail, H4 DIN-Rail, H8 (G3830 5543)	DIN-Rail, H4	
Electrical specif	fications				
Number of channels	4	6	1, 2, 4, 8	8	
Features/Signal types	2 x 6-265 VAC/DC inputs +2 x SPST relay outputs	4 opto isolated inputs and 2 SPST relay outputs	10 A SPDT relay 5 A SPST relay 0.7 A NPN transistor 0.7 A PNP transistor	8 x 16 A/250 VAC relays Inrush current: <130 A	
Power Supply	024 = 24 VAC 115 = 115 VAC 230 = 230 VAC 824 = 15-30 VDC	230 = 230 VAC	024 = 24 VAC 115 = 115 VAC 230 = 230 VAC 800 = 10-30 VDC 824 = 15-30 VDC	024 = 24 VAC 115 = 115 VAC 230 = 230 VAC	
General specifi	cations				
Degree of protection	IP 20	IP 20	IP 20	IP 20	
Operating temperature	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C	-5°C to +50°C	
Storage temperature	-50°C to +85°C	-50°C to +85°C	-50°C to +85°C	-50°C to +85°C	
Remarks				Total module load max. 32 A	
References					
2 input + 2 output SPST	G3440 4443				
4 input + 2 output SPST		G3440 5543			
1 x 10 A SPDT			G3430 1149		
2 x 10 A SPDT			G3430 2249		
4 x 5 A SPST			G3430 4443		
4 x 16 A SPST			G3430 4445		
8 x 5 A SPST 8 x 0.7 A NPN			G3830 5543 G3430 5511		
8 x 0.7 A PNP			G3430 5521		
V A V./ A I III			00 100 JJL 1		

G3430 5545

8 x 16 A SPST (Max. 32 A)



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Dupline® (	General purp	ose		
	Digital output	Ar	nalogue input modul	es
T	modules			
Types	G8830 1143	G3429 6470	G3210 1161	G3210 1111
		Dollar Transport	Dragona Services and the services are the services and the services are the services and the services are the services and the services and the services are th	
Dimensions (mm)	26 x 39 x 17	77 x 72 x 70	77 x 36 x 70	77 x 36 x 70
Functions	Decentral relay module with 1 x SPST relay for control of lights	Universal analogue input module for external supply	Analogue input module powered from Dupline® and input signal	Dupline®- powered Analogue input module for Pt100 temperature sensor
Housing type	Compact regular, with solid cables. For decentral installation	DIN-Rail, H4	DIN-Rail, H2	DIN-Rail, H2
Electrical specifi	cations			
Number of channels	1	Selectable	1	1
Features/Signal types	1 x 13 A/250 VAC relay Inrush current: <130 A	4 x isolated analogue input. Input type individually configurable (0-20 mA, 4-20 mA, 0-10 VDC)	1 x 4-20 mA input	1 x Pt100 3-wire input Ranges: (-50°C to +40°C) (+30°C to +120°C) (-10°C to +100°C)
Power Supply	Powered through the Dupline <sup>®</sup> network	024 = 24 VAC 115 = 115 VAC 230 = 230 VAC 800 = 10-30 VDC	Powered through the Dupline® network and 4-20 mA input signal	Powered through the Dupline® network
General specific	ations			
Degree of protection	IP 20	IP 20	IP 20	IP 20
Operating temperature	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Storage temperature	-50°C to +85°C	-20°C to +85°C	-50°C to +85°C	-50°C to +85°C
Remarks	Recommended minimum load 100 mA / 12 V	Protocol freely selectable (Analink, Multiplexed BCD or 8-bit)	Uses Analink 8-bit protocol	Uses Analink 8-bit protocol Built-in cable compensation
References				
Universal analogue output		G3429 6470		
Dupline powered analogue input			G3210 1161	
-50°C to +40°C				G3210 1111
+30°C to +120°C				G3210 1112

-10°C to +100°C

G8830 1143

1 x 13 A SPST

G3210 1113



Analogue output modules

Types G3439 6470 G8810 6265 G8810 6311 G8810 6312









Dimensions (mm)	77 x 72 x 70	50 X 30 X 18	50 X 30 X 18	50 X 30 X 18
Functions	Universal analogue output module for external supply	Decentral analogue module with 3 x 0-10 VDC inputs designed for HVAC systems	Decentral analogue module with 2 x 0-10 VDC, 1 x thermistor and 1 x variable resistor inputs designed for HVAC systems	Decentral analogue module with 1 x thermistor and 1 x variable resistor inputs designed for HVAC systems
Housing type	DIN-Rail, H4	Compact housing for de- central installation	Compact housing for de- central installation	Compact housing for de- central installation
Electrical specific	cations			
Number of channels	Selectable	3	4	2
Features/Signal types	4 x analogue outputs. Output type configurable for 0-20 mA, 4-20 mA or 0-10 VDC	3 x 0-10 VDC input	2 x 0-10 VDC input 1 x thermistor 10k3 input 1 x variable resistor 1 - 11 KΩ input	1 x thermistor 10k3 input 1 x variable resistor 1 - 11 KΩ input
Power Supply	024 = 24 VAC 115 = 115 VAC 230 = 230 VAC 800 = 10-30 VDC	Powered from external 15 - 30 VDC	Powered from external 15 - 30 VDC	Dupline® powered
General specific	ations			
Degree of protection	IP 20	IP 20	IP 20	IP 20
Operating temperature	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Storage temperature	-20°C to +85°C	-20°C to +85°C	-20°C to +85°C	-20°C to +85°C
Remarks	Protocol freely selectable (Analink, Multiplexed BCD or 8-bit)	Analink protocol 8 bit resolution	Analink protocol 8 bit resolution	Analink protocol 8 bit resolution
References				
Universal analogue output	G3439 6470			
Decentral 3 x input		G8810 6265		
Decentral 4 x input			G8810 6311	
Decentral 2 x input Bus powered				G8810 6312



Digital sensors Temperature Sensor

Types G6110 1145 G8910 1101 G8911 1010







Ø11 G8910 1101								
Housing type M18 Cylindrical Flat pack sensor housing    Flectrical specifications	Dimensions (mm)	M18 x 55	Ø11 x 68	67 x 35 x 15				
Number of channels   1   1   1   1   1   1   1   1   1	Functions	Dupline® powered inductive proximity switch	Dupline® powered magnet proximity switch					
Number of channels 1 1 1 1 Features/Signal types Detects proximity of metal objects Power Supply Powered through the Dupline® network  General specifications  Degree of protection IP 67 IP 67 IP 67 IP 67 Operating temperature -25°C to +70°C -20°C to +50°C -25°C to +70°C Storage temperature -30°C to +80°C -20°C to +70°C -55°C to +85°C  Remarks Available with cable or M12 connector. Flush mounting or with M14 metal thread  References  Cable G6110 1145 M12 plug G6110 1145-1 G8910 1101	Housing type	M18	Cylindrical	Flat pack sensor housing				
Features/Signal types  Detects proximity of metal objects Power Supply  Powered through the Dupline® network Powered through the Dupline® network  Powered through the Dupline® network	Electrical specif	Electrical specifications						
Power Supply       Powered through the Dupline® network       Powered through the Dupline® network       Powered through the Dupline® network         General specifications         Degree of protection       IP 67       IP 67       IP 67         Operating temperature       -25°C to +70°C       -20°C to +50°C       -25°C to +70°C         Storage temperature       -30°C to +80°C       -20°C to +70°C       -55°C to +85°C         Remarks       Available with cable or M12 connector. Flush mounting or with M14 metal thread       8-bit resolution         References         Cable       G6110 1145       G8911 1010         M12 plug       G6110 1145-1       G8910 1101	Number of channels	1	1	1				
Degree of protection IP 67 IP 67 IP 67 Operating temperature -25°C to +70°C -20°C to +50°C -25°C to +70°C Storage temperature -30°C to +80°C -20°C to +70°C -55°C to +85°C Remarks Available with cable or M12 connector. Available in Ø 11 plastic housing or with M14 metal thread  References Cable G6110 1145 M12 plug G6110 1145-1 G8910 1101	Features/Signal types	Detects proximity of metal objects	Detects proximity of magnet	1 x Analink Range: -30°C to +60°C				
Degree of protection         IP 67         IP 67         IP 67           Operating temperature         -25°C to +70°C         -20°C to +50°C         -25°C to +70°C           Storage temperature         -30°C to +80°C         -20°C to +70°C         -55°C to +85°C           Remarks         Available with cable or M12 connector. Flush mounting         Available in Ø 11 plastic housing or with M14 metal thread         8-bit resolution           References           Cable         G6110 1145         G8911 1010           Ø11         G8910 1101         G8910 1101	Power Supply	Powered through the Dupline® network	Powered through the Dupline® network	Powered through the Dupline® network				
Operating temperature  -25°C to +70°C  -20°C to +50°C  -20°C to +50°C  -25°C to +70°C  -55°C to +85°C  Remarks  Available with cable or M12 connector. Flush mounting or with M14 metal thread  References  Cable  G6110 1145  M12 plug  G6110 1145-1  G8910 1101	General specifications							
Storage temperature	Degree of protection	IP 67	IP 67	IP 67				
Remarks Available with cable or M12 connector. Flush mounting Available in Ø 11 plastic housing or with M14 metal thread 8-bit resolution  References  Cable G6110 1145  M12 plug G6110 1145-1 G8910 1101	Operating temperature	-25°C to +70°C	-20°C to +50°C	-25°C to +70°C				
References         General Marks         Flush mounting         or with M14 metal thread         8-bit resolution           References           Cable         G6110 1145           M12 plug         G6110 1145-1         G8911 1010           Ø11         G8910 1101	Storage temperature	-30°C to +80°C	-20°C to +70°C	-55°C to +85°C				
Cable         G6110 1145           M12 plug         G6110 1145-1         G8911 1010           Ø11         G8910 1101	Remarks		Available in Ø 11 plastic housing or with M14 metal thread	8-bit resolution				
M12 plug G6110 1145-1 G8911 1010 Ø11 G8910 1101	References							
Ø11 G8910 1101	Cable	G6110 1145						
	M12 plug	G6110 1145-1		G8911 1010				
M14 C0010 1101 C	Ø11		G8910 1101					
M14 G0910 1101-G	M14		G8910 1101-G					



 Types
 Repeater
 Optolink interface

 Housing
 D3892 0000
 G3491 0000
 G3491 0090







Dimensions (mm)	77 x 144 x 70	77 x 72 x 70	77 x 72 x 70
Functions	Dupline® signal Repeater for extension of transmission distance	RS232 to fibre optic interface	RS232 to fibre opto-link interface
Housing type	DIN-Rail, H8	DIN-Rail, H4	DIN-Rail, H4
<b>Electrical specifi</b>	cations		
Number of channels	Adjusts automatically	Adjusts automatically	Adjusts automatically
Features/Signal types	All Dupline® signal types. Regenerates the Dupline® signal carrier through channel-generator output	Reads/controls up to 63 Dupline® systems which are networked through optolinks (G3491 0000)	Used as interface between computer or PLC with RS232 and a fibre optic Lan-ring
Power Supply	024 = 24 VAC 115 = 115 VAC 230 = 230 VAC	024 = 24 VAC 115 = 115 VAC 230 = 230 VAC	024 = 24 VAC 115 = 115 VAC 230 = 230 VAC
General specific	ations		
Degree of protection	IP 20	IP 20	IP 20
Operating temperature	0°C to +50°C	0°C to +50°C	0°C to +50°C
Storage temperature	-50°C to +85°C	-50°C to +85°C	-20°C to +85°C
Remarks		Operates with G3491 0090	Operates with G3491 0000
References			
Repeater (Booster)	D3892 0000		
Dupline® fibre interface		G3491 0000	
RS232 to optolink interface			G3491 0090



# Dupline® General purpose Converters Display modules Power supply Types G3491 0040 G3492 / G3493 G5460 6606 G3485 0000









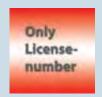
Dimensions (mm)	77 x 72 x 70	77 x 72 x 70	96 x 96 x 78	77 x 72 x 70
Functions	Private line Modem for long distance transmission of Dupline® signals	Optical repeater for converting Dupline® from electrical to optical transmission media	LED status indicator for 16 Dupline® channels	3-wire power supply, used whe multiple Dupline® modules ar supplied through a DCbus
Housing type	DIN-Rail, H4	DIN-Rail, H4	Panel mounting	DIN-Rail, H4
Electrical specific	ations			
Number of channels	Adjusts automatically	Adjusts automatically	16	Selectable
Features/Signal types	Digital, 8-bit analogue, non- multiplexed 3 1/2 digit BCD analogue	All Dupline® signal types	Each of the 16 LED's indicates the status of the digital channels assigned to it	Supply current ≤ 4 A (up to 25°C) or ≥ 3 A (up to 50°C)
Power Supply	024 = 24 VAC 115 = 115 VAC 230 = 230 VAC	230 = 115/230 VAC	024 = 24 VAC 115 = 115 VAC 230 = 230 VAC	15-30 VDC
General specific	ations			
Degree of protection	IP 20	IP 20	IP 40	IP 20
Operating temperature	0°C to +50°C	0°C to +50°C	0°C to +50°C	-5°C to +50°C
Storage temperature	-20°C to +85°C	-20°C to +85°C	-20°C to +60°C	-20°C to +85°C
Remarks	Operates pair-wise	Operates pair-wise. Runs on 0/125, 62.5/125 or 100/140 micro m with STN connectors		Multiple units can be connected in parallel to increase length and size of a Dupline® system
References				
Long distance modem	G3491 0040			
Optical/electrical converter		G3492 0000		
Electrical/optical converter		G3493 0000		
LED indicator for Dupline			G5460 6606	
3-wire power supply				G3485 0000 700



#### Software

Types DUPDATACC DUP-SERV-ADD DUP-SERV-SW DUP-PGS-SWxx









**Functions** 

Software package with DDE-driver and ActiveXdriver for G3800. Controller and interface unit A data logging, visualization and alarm handling software package to be installed in a windows based PC A data logging, visualization and alarm handling software package to be installed in a windows based PC A data logging, visualization and alarm handling software package to be installed in a windows based PC

#### **Electrical specifications**

Features/Signal types

All Dupline® signal types. Copy and paste of dynamic Dupline links into EXCEL spreadsheets Works only with G3800 xx36. Log and control energy consumption, analogue values and digital events and alarms

Works only with G3800 xx36. Log and control energy consumption, analogue values and digital events and alarms

Client/server program that is developed to the GP34960005 Carpark Master Module together with Moxa RS485/ethernet connectors

References
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Keterences			
DDE-Server	DUPDATACC		
Dupline-Online One License		DUP-SI	RV-SW
ADD-License to Dupline-Online		DUP-SERV-ADD	
Dupline-Online two license		DUP-SE	RV-SW2
Dupline Carpark 250 parking spaces			DUP-PGS-SW250
Dupline Carpark 500 parking spaces			DUP-PGS-SW500
Dupline Carpark 1000 paing spaces			DUP-PGS-SW1000
Dupline Carpark 2000 parking spaces			DUP-PGS-SW2000
Dupline Carpark 3000 parking spaces			DUP-PGS-SW3000
Dupline Carpark 4000 parking spaces			DUP-PGS-SW4000
Dupline Carpark 5000 parking spaces			DUP-PGS-SW5000
Dupline Carpark 6000 parking spaces			DUP-PGS-SW6000
Dupline Carpark 7000 parking spaces			DUP-PGS-SW7000
Dupline Carpark 8000 parking spaces			DUP-PGS-SW8000
Dupline Carpark 9000 parking spaces			DUP-PGS-SW9000
Dupline Carpark 10000 parking spaces			DUP-PGS-SW10000



### Accessories

Types GAP1605 GTU8 G3282 2002 230







Dimensions (mm)	120 x 65 x 22	145 x 90 x 28	77 x 36 x 70
Functions	Dupline® coding device for assigning addresses to Dupline® I/O modules and sensors	Dupline® test unit for monitoring and control of Dupline® channels	Dupline® bus separator
Housing type	Handheld	Handheld	H2 Housing
<b>Electrical specifi</b>	cations		
Number of channels	NA	Adjusts automatically	2
Features/Signal types		Digital, multiplexed BCD, 8-bit analogue signalsand split I/O. Also prepared to calibrate sensors in Carpark system	Disconnect the secondary side of the Dupline® bus when a short-circuit is detected
Power Supply	9 V battery	Powered through the Dupline® network	230 V
General specific	cations		
Degree of protection	IP 40	IP 40	IP 20
Operating temperature	0°C to +50°C	0°C to +50°C	0°C to +50°C
Storage temperature	-20°C to +60°C	-20°C to +85°C	-20°C to +85°C
Remarks		Options for latching digital signals and for reading multiplexed BCD values	
References			
Programmer	GAP1605		
Display			
Monitoring and control unit		GTU8	
Bus separator			G3282 2002 230



#### Dupline® General purpose **Accessories ADAPT 1605 ANTI** ANT2 D3212 4000 **Types** 25 x 50 x 100 15 x 35 x 120 36 x 70 x 77 Dimensions (mm) Codings adaptor between GAP1605 and Dupline® modules without standard connection plug Active antenna used for radio controlled clock **Synchronizer** module **Functions** GSM antenna 900 MHz analogue modules Housing type Handheld box Glued plastic casing **H2** housing **Electrical specifications** 4 clip-on terminals for Dupline® modules. Includes a M12 plug for modules like G8911 1010 Max. 112 analogue signals with up to 12 bit resolution Features/Signal types Input signal is 77.5 kHz Powered by G3800 XXXX Powered by G3800 XXXX Powered by Dupline® **Power Supply General specifications** Degree of protection **IP 20** IP 67 IP 40 IP 40 0°C to +50°C -25°C to +60°C 0°C to +50°C -20°C to +50° Operating temperature -20°C to +60°C -20°C to +60°C -20°C to +60°C -50°C to +85°C Storage temperature Remarks Transmits always on A1-A4 References Adaptor **ADAPT 1605** ANT1 ANT2 Antenna D3212 4000

**Synchronizer** 



Dupline® General purpose				
	Accessories			
Types	DT01/DT02	ETHCONV 2	ETHCONV 3	ETHCONV 4
	0.0	3.50		
Dimensions (mm)	17.5 x 70 x 77	22 x 75.2 x 80	22 x 90 x 100.4	29 x 89.2 x 118.5
Functions	Cable termination unit	Ethernet to RS232 converter	Ethernet to RS232 converter	Ethernet to RS485 converter
Housing type	H1 housing	Metal housing	Metal housing	Plast housing
Electrical specifi	cations			
Number of channels		1	2	2
Features/Signal types	Removes distortion caused by reflection	1 port RJ45 10/100 Mbit TCP/IP based ethernet	2 port RJ45 10/100 Mbit TCP/IP based ethernet	2 port RJ45 10/100 Mbit TCP/IP based ethernet
Power Supply	No power needed	12-48 VDC/130 mA	12-30 VDC/305 mA	12-30 VDC/305 mA
General specifications				
Degree of protection	IP 20	IP 20	IP 20	IP 30
Operating temperature	-20°C to +50°C	0°C to +55°C	0°C to +55°C	0°C to +55°C
Storage temperature	-50°C to +85°C	-40°C to +75°C	-40°C to +75°C	-40°C to +75°C
Remarks		Automatic dedicated installation tool available	Automatic dedicated installation tool available	Automatic dedicated installation tool available
References				
Standard Dupline®	DT01			
Hi-line Dupline®	DTO2			
1 Channel		ETHCONV2		
2 Channels			ETHCONV3	ETHCONV4