



DuplineSafe, Fieldbuses

Технические характеристики

По вопросам продаж и поддержки обращайтесь:




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Ижевск (3412)26-03-58	Набережные Челны (8552)20-53-41	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
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Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	

DuplineSafe





	Input module	Output module
Types	GS7510 2101	GS3830 0143
		
Dimensions (mm)	57.5 x 36.0 x 16.4	144 x 77 x 70
Functions	Bus-powered safety input module	DuplineSafe relay output module. Monitors up to 63 DuplineSafe inputs
Housing type		DIN-rail mounting H8
Electrical specifications		
Number of channels	2	2
Features/Signal types	1 x NC contact	2 x NO Relays Force Guided contact
Power supply	Powered through the Dupline® network	230 VAC ± 15%
General specifications		
Degree of protection	IP67	IP20
Pollution degree	3 (IEC 60664)	3 (IEC 60664)
Operating temperature	-40°C to +50°C	-25°C to +50°C
Storage temperature	-40°C to +70°C	-30°C to +70°C
Humidity (non condensing)	20 to 80%	20 to 80%
Remarks	Approved by TÜV Rheinland according to IEC/EN 61508, EN 62061 and ISO/EN 13849-1 PL e	Approved by TÜV Rheinland according to IEC/EN 61508, EN 62061 and ISO/EN 13849-1 PL e
References		
Cable connection	GS7510 2101	
Cable connection cULus approved	GS7510 2192	
Plug connector	GS7510 2101-1	
Plug connector cULus approved	GS7510 2192-1	
Output relay		GS3830 0143

DuplineSafe

Gateway / interface

Types	GS33910060800	GS3891 0125	GSTI 50
			
Dimensions (mm)	90 x 35 x 58.5	144 x 77 x 70	55 x 70 x 15
Functions	Profinet gateway with function as slave. Up to 7 master generators can be connected via the HS RS485 bus. All Dupline® signals from master generators are available on Profinet	Profibus-DP passive Gateway with Safety mapping	Dupline® Modbus interface module with Safety mapping
Housing type	DIN-rail mounting H2	DIN-rail mounting H8	Compact plastic housing
Electrical specifications			
Features/Signal types	Reads/controls up to 7 Dupline networks through Profinet. Miniwebserver for diagnostics of Profinet and Dupline® networks available	Reads/controls up to 128 inputs/outputs through Profibus-DP, Communication speed up to 12 MBaud	
Power supply	24 VDC	115-230 VAC	Powered by the RS485 com port
General specifications			
Degree of protection	IP20	IP20	IP20
Operating temperature	-20°C to +50°C	0°C to +50°C	-20°C to +60°C
Storage temperature	-30°C to +85°C	-20°C to +85°C	-30°C to +85°C
Humidity (non condensing)	20 to 80%	20 to 80%	
Remarks	Certified by PNO	Certified by PNO	Supports Modbus RTU function code 3 and code 16
References			
	GS33910060800	GS38910125230	GSTI 50

DuplineSafe

	Optical fibre converter	Repeater	Configuration tool	
Types	GS3492/GS3493	GS3892 0000	GS7380 0080	GS7380 0081
				
Dimensions (mm)	77 x 72 x 70	77 x 144 x 70	28 x 90 x 145	25 x 50 x 100
Functions	Optical repeater for converting DuplineSafe from electrical to optical transmission media	DuplineSafe signal repeater for extension of transmission distance	Configuration and test unit for DuplineSafe	USB Configuration unit for DuplineSafe
Housing type	DIN-rail, H4	DIN-rail H8	Handheld	Handheld
Electrical specifications				
Number of channels	Adjusts automatically	Adjusts automatically		
Features/Signal types	All Dupline® signal types	Regenerates the Dupline® signal carrier through channel generator output		Windows based programming tool for safety output relay module and safety input modules
Power supply	230 = 115/230 VAC	024 = 024 VAC 115 = 115 VAC 230 = 230 VAC	9 V battery 6LR61	Supplied by the USB port
General specifications				
Degree of protection	IP20	IP40	IP40	IP40
Pollution degree				3 (IEC 60664)
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	-50°C to +85°C	-20°C to +70°C	-20°C to +60°C
Remarks	Operates pair-wise. Runs on 50/125, 62.5/125 or 100/140 micro m with STN connectors		Adapt 7380 is included	
References				
		GS3892 0000	GS7380 0080	GS7380 0081
Optical/electrical converter	GS3492 0000			
Electrical/optical converter	GS3493 0000			

DuplineSafe

Master generator

Types

GS33900000800A



Dimensions (mm)

90 x 35 x 58.5

Functions

Master channel generator which provides the Dupline® bus carrier with power and communication for the connected Dupline® units

Housing type

DIN-rail mounting H2

Electrical specifications

Number of channels

128

Features/Signal types

The unit supports Digital in/out, Analink in/out, Mux BCD in/out, 8 bit in/out and DuplineSafe in High Dupline® current output (450 mA)

Power supply

24 VDC

General specifications

Degree of protection

IP20

Operating temperature

-20°C to +50°C

Storage temperature

-50°C to +85°C

Humidity (non condensing)

20 to 80%




References

Dupline® Master Channel Generator





GS33900000800A

Fieldbuses - Industrial




Channel generators/interfaces

Types	SD2DUG24	G3496	G3800
			
Dimensions (mm)	35 x 90 x 58,5	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, H2	DIN-rail, H4	DIN-rail, H8
Electrical specifications			
Number of channels	Selectable	Selectable	Selectable
Features/Signal types	2 and 3-wire operation with DC-power on the 3 rd wire. The unit supports Digital in/out, Analink in/out, Mux BCD in/out, 8 bit in/out and Dupline	Possibility of 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	24 VDC	700 = 20-30 VDC	800 = 10-30 VDC 230 = 115-230 VAC
General specifications			
Degree of protection	IP20	IP20	IP20
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	Modbus gateway, RS485	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	SD2DUG24		
Omron		G3496 0004	
Allen-Bradley		G3496 0006	
Matsushita		G3496 0009	
-GSM Modem, -RS485			G3800 0015
-GSM Modem, +RS485			G3800 0016

Fieldbuses - Industrial



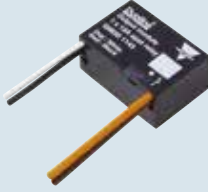
	Channel generators/interfaces		Digital input modules	
Types	G3891	GTI50	G3410 5501	G3420
				
Dimensions (mm)	77 x 144 x 70	55 x 70 x 15 mm	77 x 72 x 70	77 x 72 x 70
Functions	Gateways to Fieldbus systems (Profibus-DP, DeviceNet etc.)	Dupline® Modbus RTU Interface module for Text Displays and Touch screens	Dupline® powered transmitter with 8 monostable voltage free contacts	Input module for external supply with optoisolated inputs
Housing type	DIN-rail, H8	Closed plastic housing with 25p male sub-D	DIN-rail, H4	DIN-rail, H4
Electrical specifications				
Number of channels	Selectable		8	8
Features/Signal types		Supports Modbus RTU function code 3 and code 16	Voltage 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 specifications				
Degree of protection	IP20	IP20	IP20	IP20
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				
	GTI50			
Profibus-DP with C. G.	G3891 0020			
Profibus-DP analogue output multiplex	G3891 0021			
DeviceNet	G3891 0050			
Modbus/TCP	G3891 0052			
Profibus-DP passive	G3891 0120			
8 channel	G3410 5501			
Contact/NPN				G3420 5501
Voltage				G3420 5502

Fieldbuses - Industrial

	Digital input modules		Digital I/O modules
Types	G5010	G8810 2201	G3440 4443
			
Dimensions (mm)	49 x 22.5 x 56	28 x 14 x 10	77 x 72 x 70
Functions	Dupline® powered single input Module	Small-sized 2-channel monostable transmitter	Combined I/O module for external supply with optoisolated inputs and relay outputs
Housing type	DIN-rail, Mini-E	Plug-in	DIN-rail, H4
Electrical specifications			
Number of channels	1	2	4
Features/Signal types	Contact input	2 contact inputs for push buttons cULus approved	2 x 6-265 VAC/DC inputs + 2 x SPST relay outputs
Power supply	Powered through the Dupline® network	Supplied by Dupline®	024 = 24 VAC 115 = 115 VAC 230 = 230 VAC 824 = 15-30 VDC
General specifications			
Degree of protection	IP20	IP65	IP20
Operating temperature	-20°C to +50°C	-40°C to +70°C	-20°C to +50°C
Storage temperature	-50°C to +85°C	-40°C to +70°C	-50°C to +85°C
Remarks		Address coding by GAP 1605	
References			
1 channel	G5010 1106		
2 channels	G5010 2206	G8810 2201	
2 input + 2 output SPST			G3440 4443




Fieldbuses - Industrial

Digital output modules





Types	G3430 / G3830	G34305545	G8830 1143
			
Dimensions (mm)	77 x 72 x 70 77 x 144 x 70 (H8)	77 x 72 x 70	26 x 39 x 17
Functions	Output modules for external supply with isolated outputs	Central relay module with 8 x SPST relays for resistive loads	Decentral relay module with 1 x SPST relay for control of lights
Housing type	DIN-rail, H4 DIN-rail, H8 (G3830 5543)	DIN-rail, H4	Compact regular, with solid cables. For decentral installation
Electrical specifications			
Number of channels	1, 2, 4, 8	8	1
Features/Signal types	10 A SPDT relay 10 A SPST relay 0.7 A NPN transistor 0.7 A PNP transistor	8 x 16 A/250 VAC relays Inrush current: <130 A	1 x 13 A/250 VAC relay Inrush current: <130 A
Power supply	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	Powered through the Dupline® network
General specifications			
Degree of protection	IP20	IP20	IP20
Operating temperature	-20°C to +50°C	-5°C to +50°C	0°C to +50°C
Storage temperature	-50°C to +85°C	-50°C to +85°C	-50°C to +85°C
Remarks		Total module load max. 32 A	Recommended minimum load 100 mA / 12 V
References			
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	G3830 5543		
8 x 0.7 A NPN	G3430 5511		
8 x 0.7 A PNP	G3430 5521		
8 x 16 A SPST (Max. 32 A)		G3430 5545	
1 x 13 A SPST			G8830 1143

Fieldbuses - Industrial





Analogue input modules

Types	G3429 6470	G3210 1161	G3210 1111
			
Dimensions (mm)	77 x 72 x 70	77 x 36 x 70	77 x 36 x 70
Functions	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	DIN-rail, H4	DIN-rail, H2	DIN-rail, H2
Electrical specifications			
Number of channels	Selectable	1	1
Features/Signal types	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	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 specifications			
Degree of protection	IP20	IP20	IP20
Operating temperature	0°C to +50°C	0°C to +50°C	0°C to +50°C
Storage temperature	-20°C to +85°C	-50°C to +85°C	-50°C to +85°C
Remarks	Freely selectable protocol (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 +30°C to +120°C		G3210 1161	G3210 1112

Fieldbuses - Industrial




	Analogue output modules	Decentral analogue input 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 decentral installation	Compact housing for decentral installation	Compact housing for decentral installation
Electrical specifications				
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 specifications				
Degree of protection	IP20	IP20	IP20	IP20
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	Freely selectable protocol (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

Fieldbuses - Industrial




	Digital sensors	Temperature sensor	Repeater	Converters
Types	G8910 1101	G8911 1010	D3892 0000	G3492 / G3493
				
Dimensions (mm)	Ø11 x 68	67 x 35 x 15	77 x 144 x 70	77 x 72 x 70
Functions	Dupline® powered magnet proximity switch	Temperature sensor for outdoor use. With built-in PT1000 transducer	Dupline® signal Repeater for extension of transmission distance	Optical repeater for converting Dupline® from electrical to optical transmission media
Housing type	Cylindrical	Flat pack sensor housing	DIN-rail, H8	DIN-rail, H4
Electrical specifications				
Number of channels	1	1	Adjusts automatically	Adjusts automatically
Features/Signal types	Detects proximity of magnet	1 x Analink Range: -30°C to +60°C	All Dupline® signal types. Regenerates the Dupline® signal carrier through channel-generator output	All Dupline® signal types
Power supply	Powered through the Dupline® network	Powered through the Dupline® network	024 = 24 VAC 115 = 115 VAC 230 = 230 VAC	230 = 115/230 VAC
General specifications				
Degree of protection	IP67	IP67	IP20	IP20
Operating temperature	-20°C to +50°C	-25°C to +70°C	0°C to +50°C	0°C to +50°C
Storage temperature	-20°C to +70°C	-55°C to +85°C	-50°C to +85°C	-20°C to +85°C
Remarks	Available in Ø 11 plastic housing or with M14 metal thread	8-bit resolution		Operates pair-wise. Runs on 0/125, 62.5/125 or 100/140 micro m with STN connectors
References				
Ø11	G8910 1101			
M14	G8910 1101 G			
M12 plug		G8911 1010		
Repeater (Booster)			D3892 0000	
Optical/electrical converter				G3492 0000
Electrical/optical converter				G3493 0000

Fieldbuses - Industrial





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
Electrical specifications			
Number of channels	NA	Adjusts automatically	2
Features/Signal types		Digital, multiplexed BCD, 8-bit analogue signals and 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 specifications			
Degree of protection	IP40	IP40	IP20
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		
Monitoring and control unit	GTU8		
Bus separator	G3282 2002 230		

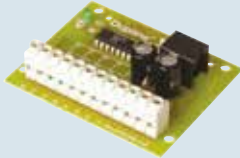


Fieldbuses - Industrial

Accessories			
Types	ADAPT 1605	ANT2	DT01/DT02
			
Dimensions (mm)	25 x 50 x 100	15 x 35 x 120	17.5 x 70 x 77
Functions	Codings adaptor between GAP1605 and Dupline® modules without standard connection plug	Active antenna used for radio controlled clock	Cable termination unit
Housing type	Handheld box	Glued plastic casing	H1 housing
Electrical specifications			
Features/Signal types	4 clip-on terminals for Dupline® modules. Includes a M12 plug for modules like G8911 1010	Input signal is 77.5 kHz	Removes distortion caused by reflection
Power supply		Powered by G3800 XXXX	No power needed
General specifications			
Degree of protection	IP20	IP40	IP20
Operating temperature	0°C to +50°C	0°C to +50°C	-20°C to +50°C
Storage temperature	-20°C to +60°C	-20°C to +60°C	-50°C to +85°C
References			
Adaptor	ADAPT 1605		
Antenna		ANT2	
Standard Dupline®			DT01
Hi-line Dupline®			DT02




Fieldbuses - Agriculture

	Digital I/O modules		Converter	Tools
Types	GH3440 4412	GH6440 4412	GH3485 0000	GHTU8
				
Dimensions (mm)	77 x 72 x 70	80 x 77 x 50	77 x 72 x 70	145 x 90 x 28
Functions	I/O module for irrigation valve control	I/O module for irrigation valve control	Dupline® to Hi-Line converter	Dupline® test unit for monitoring and control of Dupline® channels. Used for Hi-line modules
Housing type	DIN-rail, H4	Fully molded housing for under ground installation	DIN-rail, H4	Handheld
Electrical specifications				
Number of channels	4	4	Adjusts automatically	Adjusts automatically
Features/Signal types	2 outputs for control of 3-wire 12 VDC latching valve, and 2 contact inputs	2 outputs for control of 3-wire 12 VDC latching valve, and 2 contact inputs	Converts the Dupline® signal to Hi-Line 28 VDC level for control of irrigation valves (see GH3440 4412 and GH6440 4412)	Digital, multiplexed BCD and 8-bit analogue signals
Power supply	Powered through Hi-Line signal (see GH34850000)	Powered through Hi-Line signal (see GH34850000)	724 = 20-30 VDC	Powered through the Dupline® network
General specifications				
Degree of protection	IP20	IP67	IP20	IP40
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	-50°C to +85°C	-50°C to +85°C	-20°C to +85°C
Remarks				Options for latching digital signals and for reading multiplexed BCD values
References				
2 outputs and 2 inputs	GH3440 4412	GH6440 4412		
Converter			GH3485 0000	
Monitoring and control unit				GHTU8

Fieldbuses - Elevator

	Input module	Output module	Input/output module
Types	G2120	G2130	G2140 4421
			
Dimensions (mm)	Open PCB 72.3 x 59	Open PCB 74 x 59	Open PCB 54 x 40
Functions	8 contact inputs for push buttons or transistors. LED indications for supply and carrier	8 outputs for control of floor indicators and lamps. LED indications for supply and carrier	2 push button inputs. 2 PNP-transistor outputs. LED indications for supply and carrier
Housing type	Snap locks or DIN-rail (vertical or horizontal)	Snap locks or DIN-rail (vertical or horizontal)	Snap locks or DIN-rail (vertical or horizontal)
Electrical specifications			
Number of channels	8	8	4
Features/Signal types	3-wire operation with DC-power on wire 3	3-wire operation with DC-power on wire 3	3-wire operation with DC-power on wire 3
Power supply	700 = 10 - 30 VDC	700 = 10 - 30 VDC	700 = 10 - 30 VDC
General specifications			
Operating temperature	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C
References			
NPN	G2120 5501 700	G2130 5511 700	
PNP	G2120 5502 700	G2130 5521 700	G2140 4421 700

Fieldbuses - Elevator

	Input/output module	Master modules	
Types	G2140 55.0	G2196	G3496
			
Dimensions (mm)	Open PCB 74 x 59	Open PCB 86 x 54	77 x 72 x 70
Functions	4 push-button inputs 4 transistor outputs LED indications for supply and carrier	128 signals RS 485/RS 232 interface to control system LED indications for supply, carrier and RS485Tx	Plug & Play RS232/RS485 Interface with built-in protocols for specific PLC brands and Modbus
Housing type	Snap locks or DIN-rail (vertical or horizontal)	Snap locks or DIN-rail (vertical or horizontal)	DIN-rail, H4
Electrical specifications			
Number of channels	8	128 inputs and 128 outputs	Selectable
Features/Signal types	3-wire operation with DC-power on 3 wires	3-wire operation with DC-power on 3 wires	Possibility for 3-wire operation with DC-power on 3 wires
Power supply	700 = 10 - 30 VDC	700 = 20 - 30 VDC	700 = 20 - 30 VDC
General specifications			
Degree of protection			IP20
Operating temperature	-20°C to +50°C	-20°C to +60°C	0°C to +50°C
Storage temperature			-50°C to +85°C
Remarks			Built-in protocol for specific PLC brands for easy interfacing
References			
NPN	G2140 5510 700		
PNP	G2140 5520 700		
Omron			G3496 0004 700
Modbus RTU Slave		G2196 0005 700	
Allen-Bradley			G3496 0006 700
Matsushita			G3496 0009 700

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Архангельск (8182)63-90-72	Калининград (4012)72-03-81	Новосибирск (383)227-86-73	Сочи (862)225-72-31
Астрахань (8512)99-46-04	Калуга (4842)92-23-67	Омск (3812)21-46-40	Ставрополь (8652)20-65-13
Барнаул (3852)73-04-60	Кемерово (3842)65-04-62	Орел (4862)44-53-42	Сургут (3462)77-98-35
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Владивосток (423)249-28-31	Красноярск (391)204-63-61	Пермь (342)205-81-47	Тула (4872)74-02-29
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Вологда (8172)26-41-59	Липецк (4742)52-20-81	Рязань (4912)46-61-64	Ульяновск (8422)24-23-59
Воронеж (473)204-51-73	Магнитогорск (3519)55-03-13	Самара (846)206-03-16	Уфа (347)229-48-12
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