Dupline® Field- and Installationbus Accessories
Type GTU8, Test Unit

CARLO GAVAZZI

- Portable test unit
- Monitoring of Dupline channel status
- LCD-display
- 12-key tactile keyboard
- Supplied by Dupline
- Transmission latch
- Dual-group reading
- Analog BCD reading

Product Desciption

Test unit for Dupline modules and networks. Monitoring/control unit with LCD-display.

Highly recommended for Dupline system start-up, troubleshooting and maintenance.

Ordering Key

GTU8

Type: Dupline
Type no.

Type Selection

Supply	Ordering no. Test unit
Supplied by Dupline	GTU8

Supply Specifications

Power supply	Supplied by Dupline
Reverse-polarity protection	Yes
Rated operational current	< 4.0 mA

Product Specifications

Output	
Connection	3 mm Jack socket
Display	2 x 16 characters
Type	LCD
Height of dots	5 mm
Keyboard	Tactile keys
No. of keys	12
Channel keys	1-8
Command keys	« ↑ » « ↓ » (scroll up/down) « MODE », « ENTER »
Cable 1	GTU8 to Dupline
GTU8 connector	3 mm Jack plug
Dupline connector	2 mini grips
Signal	Red
Common	Black
Cable 2	GTU8 to ASIC module
GTU8 connector	3 mm Jack plug
Dupline connector	1 6/6 modular plug

General Specifications

Environment	
Degree of protection	IP 40
Pollution degree	3 (IEC 664)
Operating temperature	0 to +50°C (32 to 122°F)
Storage temperature	-20 to +60°C (-4 to -140°F)
Humidity non-condensing	20 to 80%
Mechanical resistance	
Shock	15 G (11 ms)
Vibration	2 G (6 to 55 Hz)
Dimensions (l x w x d)	145 x 90 x 28 mm
Material	ABS, grey
Weight	250 g

Specifications are subject to change without notice

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Mode of Operation

128-channel portable trans-mitter/receiver unit supplied by Dupline. The GTU8 can be used anywhere along the two wires to monitor and control the status of Dupline chan-nels. This unit is highly re-commended for start-up and maintenance work on Dupline systems.

The GTU8 can operate in 4 different modes:
Digital 1 group
Digital 2 groups
Edit Tx-latch
Analog BCD

The start-up mode is "Digital 1 group".

To change mode:
1. Press « Mode »
2. Shift between mode op-tions by pressing either « ↑ » or « ↓ ».
3. Select mode by press-ing « Enter ».

Digital 1 group
Once connected to the Dup-line, the display shows the status of channel group A. Active channels are indicated by their numbers. Pressing «1», «2» ... «8» will activate the corresponding Dupline chan-nel in the selected channel group.

Pressing « ↑ » or « ↓ » chang-es the channel group shown in the display.

Digital 2 groups
When the mode "Digital 2 groups" is selected, the user may select an additional channel group for permanent monitoring on the bottom line of the display. The channel status of the two selected groups can now be moni-tored, but changing the chan-nel status through the keys «1» ... «8» only affects the channels displayed in the upper row of the display. Even so, pressing the « ↑ » or « ↓ » key only changes the channel group in the upper row of the display.

Edit Tx-latch
In this mode it is possible to "latch" the activation of one or more channels. This means that the GTU8 will continue transmitting on the channel(s) even though the correspond-ing transmission button is re-leased.

To cancel the transmission on a channel, press the corre-sponding transmission button again.
The latched transmission will continue even if the channel

group or mode is changed. In order to change the status of a latched transmission, it is necessary to re-enter the "Edit Tx-latch" mode.

All the latched channels are reset to normal Dupline oper-ation whenever the GTU8 becomes disconnected from the Dupline.

Analog BCD
In this mode it is possible to monitor values from analog transmitters that use the mul-tiplexed 3 1/2-digit BCD for-mat. The analog values are shown as BCD numbers with-in the range of -1999 to 1999.

By pressing « ↑ » or « ↓ » the group addresses can be changed. By keeping « Enter » pressed while activating « ↑ » or « ↓ », the multiplex address will change instead.

The display will show "Wait" until the selected multiplex address has been present on channels A1-A4.

If no analog value is transmit-ted on the selected address, the display will show: "None".

If the analog value on the se-lected address is not valid, the display will show: "Error".

If the multiplex address "OFF" is selected, the display will show the analog value trans-mitted on the selected chan-nel groups disregarding the multiplex address.
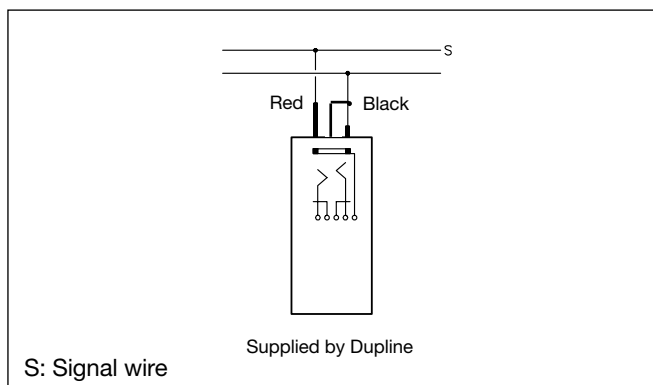
"OFF" should be selected when the analog transmitters are used in non-multiplexed mode.

If a specific analog transmitter is to be tested, it is possible to set up its multiplex address in "Tx-latch" mode and then go back to the "Analog BCD" mode to monitor the value.

Warning: Do not plug or un-plug the Jack connector when the GTU8 is connected to Dupline. This will cause a short-circuit of the two wires.

Note: If the Dupline carrier is missing, the display will not turn on.

Wiring Diagram

Red   Black

Supplied by Dupline

S: Signal wire

Additional Information

Scope of supply
1 x Test unit	GTU8
1 x Cable 1 (mini grips)	GTU8 - GRIP - CAB
1 x Cable 2	GTU8 - ASIC - CAB

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