

Front view

4x power amplifier for remote display



Features

- Signal amplifier for line extension for 4 remote displays (DSP002, DSP100, DSP-LCD)
- Extension up to 400m
- Isolated inputs

Product information

Writing conventions

Symbol	Meaning
 CAUTION!	Avoid the described hazard: Otherwise minor or medium bodily injury or property damage will result.
 WARNING!	Avoid the described hazard: Otherwise there is danger from electric voltage that can lead to death or serious bodily injury.

For your safety

For safe operation and to avoid personal injury and equipment damage through operating error, always read these instructions, become familiar with the device, and follow all safety instructions on the product and in this document, as well as the safety guidelines of Wurm GmbH & Co. KG Elektronische Systeme. Keep these instructions ready to hand for quick reference and pass them on with the device if the product is sold.

Wurm GmbH & Co. KG Elektronische Systeme accepts no liability in case of improper use or use for other than the intended purpose.

Target group	These instructions are intended for "service technicians".
Intended use	The DSP-Booster is a signal amplifier for line extension for 4 remote displays (DSP002, DSP100, DSP-LCD).



WARNING!

Danger to life from electric shock and/or fire!

- Switch off the power to the entire plant when installing, wiring or removing! Otherwise a mains voltage and/or external voltage may still be present even if the control voltage is switched off!
- The wiring of the device should be carried out only by a qualified electrician!
- Use only the correct tools for all work!
- Check all wiring after connection!
- Take note of the maximum loads on all connections!
- Never expose the device to moisture, for example due to condensation or cleaning agents!
- Take the device out of operation if it is faulty or damaged and is therefore compromising safe operation!
- Do not open the device!
- Do not repair the device yourself! If required, send it in for repair with an exact description of the fault!



CAUTION!

Electromagnetic interference can cause faults!

- Use only shielded data cables and install these far away from the load line!

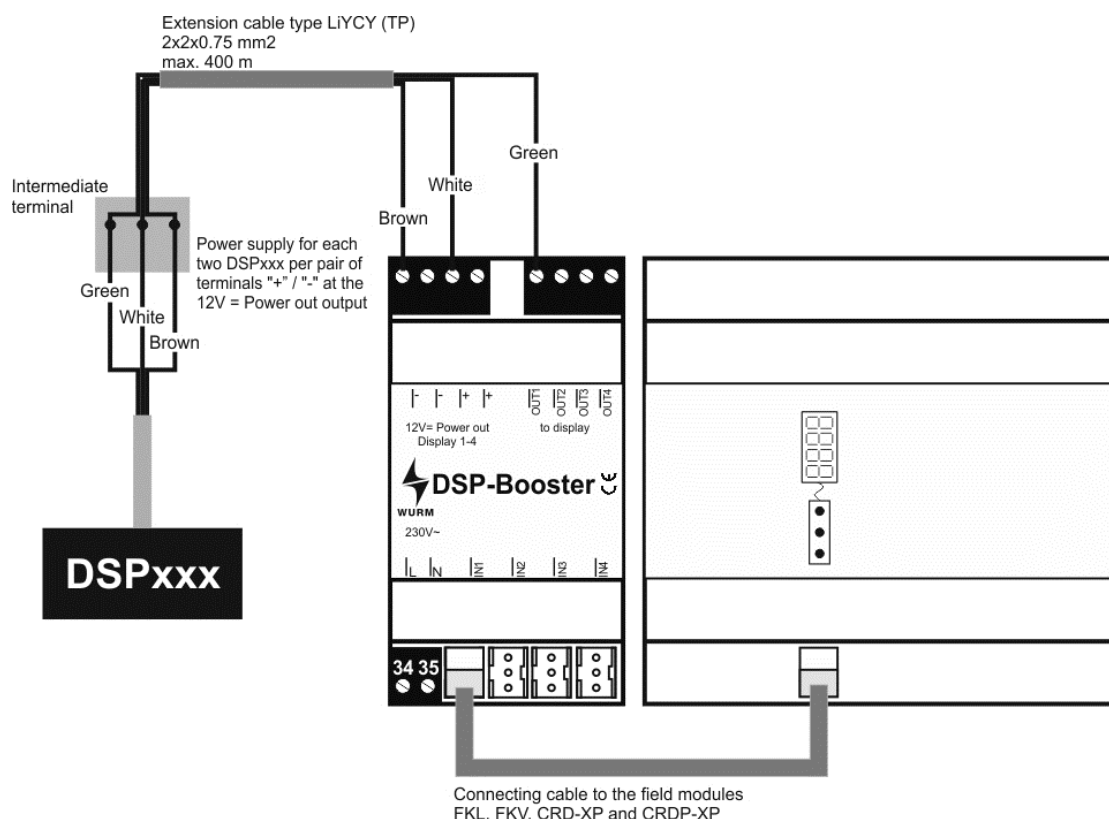
Software revisions and validity of documentation

Software version		
V1.0	2018-01	Documentation status

Any software versions not listed are special solutions for individual projects and are not described in detail in this document. This document automatically ceases to be valid if a new technical description is issued.

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You can find more information on our website at www.wurm.de

System image



Connection of FRIGOLINK cold location field modules FKV, FKL and FRIGOENTRY cold location controller CRD-XP and CRDP-XP

Four pre-made cables of length 50cm are included with the DSP-Booster. Other lengths are available on request, with a maximum length of 7m.

Use this cable to connect the DSP output of the cold location field module FKx or the cold location controller CRD-XP and CRDP-XP with a display input (IN1-IN4) on the DSP-Booster.

Connecting the extension cable

Cable lengths of 400m can be connected to the DSP-Booster.

Here it is necessary to use a cable of type LiYCY(TP) 2x2x0.75mm² (twisted pair with copper braid).

1. Connect the extension cable with the DSP-Booster according to the following colour codes:
Green: Signal (OUT1-OUT4)
White: + (12V= Power out)
Brown: - (12V= Power out)
2. Cut the cable from the DSP002/DSP100/DSP-LCD above the connector.
3. Strip the individual wires.
4. Connect the extension cable to the cable of the DSP002/DSP100/DSP-LCD in the appropriate manner.



Note!

- The power supply for each two DSP002/DSP100/DSP-LCDs is taken from the 12V= Power Out through a "+" and "-" terminal pair.

DSP-BOOSTER



Product information

Technical data

Power supply	230V~, +10% / -15%, approx. 4VA	
Inputs	4 x signal (blade plug)	
Outputs	4 x signal (screw terminals) 2 x 12V=, power supply DSPxxx (screw terminals)	
Dimensions	(WxHxD) 53 x 90 x 58mm (DIN 43880)	
Fastening	Top-hat rail TH 35-15 or TH 35-7.5 (DIN EN 60715)	
Ambient temperature	Operation: 0...+55°C, storage: -25...+70°C	
Weight	About 250g	
CE conformity	– 2014/30/EU (EMC Directive) – 2014/35/EU (Low Voltage Directive)	CE
EAC conformity	– TR CU 004/2011 – TR CU 020/2011	EAC
	RoHS II	
Valid from	Version 1.0	



Note!

- Please observe the detailed descriptions in the chapters of the FRIGOLINK system manual.