

# **Manual**

## **PC Parallel Signal Conditioner**



Type  
Release

10501  
1.0

© 12/2002 by Wiesemann & Theis GmbH

Subject to errors and changes:

Since we can make mistakes, none of our statements should be used without checking. Please let us know of any mistakes or misunderstandings you are aware of, so that we can recognize and eliminate them quickly.

Perform work on and with W&T products only as described here and only if you have read and understood the manual fully. Unauthorized use can result in hazards. We are not liable for the consequences of unauthorized use. When in doubt, check with us or consult your dealer!

## PC Parallel Signal Conditioner

A PC's printer interface is often capable of transferring more than 100,000 characters per second. It is therefore considerably faster than the computer software and even the fastest printer seldom accepts more than 5,000 characters per second.

The unnecessarily high speed does not cause any problems, as long as the printer is set up right next to the computer. This avoids the need, for example, of banishing a noisy printer to a neighbouring room.

### Function

The "PC Parallel Signal Conditioner" takes remedial action here. It is simply plugged into the printer port on the back of the computer, and the normal (shielded) printer cable is plugged, piggy-back fashion, into the adapter. You do not need a power pack.

It amplifies the signals and reduces the transmission speed by a good 20,000 characters per second. This does not interfere with the printing speed at all, it simply means that, depending on the environment, it is often possible to cover distances of more than 100 m.

The Signal Conditioner handles only unidirectional data traffic and does not have galvanic isolation. When running cables over great distances, you must therefore be sure that the computer and printer share the same PE (protection earth) potential. If this cannot be ensured, you must implement equipotential bonding or use the W&T Centronics Line Driver #20001 with galvanic isolation.

**Technical Data**

Isolation:	non-isolated
Transfer rate:	25 kcps
max. distance:	100 m
Supported signals:	all Centronics signals
Power supply:	through Centronics signals, no power adapter required
Current consumption:	approx. 500 uA
Input:	25-pin SUB-D adapter
Output:	25-pin SUB-D socket
Housing:	Plastic housing, 63x54x16 mm
Weight:	approx. 220 g
Delivery:	1 x parallel signal conditioner