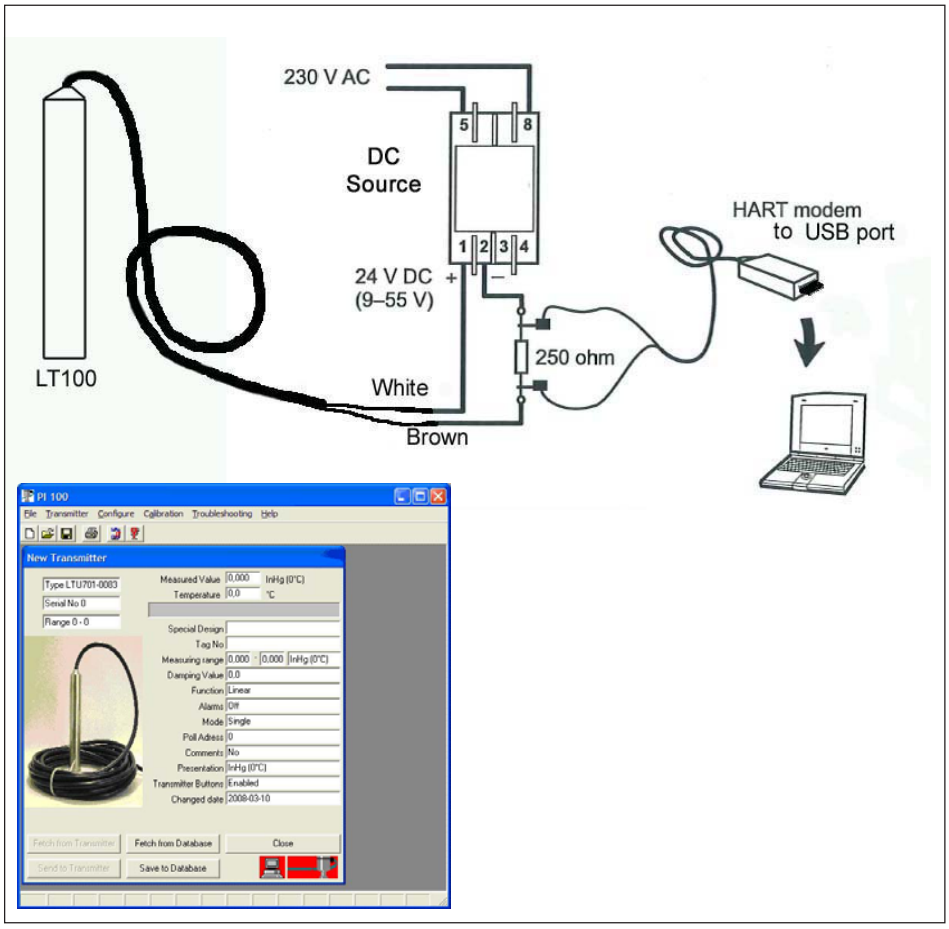
Configuration package PI100P

Configuration package for PTE200H pressure transmitter and LT100 level transmitter



HART PC configuration package for PTE200H pressure transmitter and LT100 level transmitter

All parameters in PTE200H pressure transmitters and LT100 level transmitter can be configured via HART communication, e.g. pressure range and damping value.
The communication can also be used for maintenance, e.g. output signal and pressure calibration.
The pressure and temperature value can be read with the program.
There is also a logging function for the process value in the program

Package content:

HART modem, USB.
PI100 PC software, CD.
Resistor 470 ohm

(Parts can also be ordered separately)

Cable connection:

Clips

CE

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HART Modem
The modem is connected to a USB port on the PC.
The modem translates the serial port communication to a FSK (Frequency Shift Keying) signal that is transmitted to the transmitter via the 4-20 mA signal/supply cables.

HART communication
HART is a master-slave field communications protocol developed in the late 1980's to facilitate communication with smart field devices. HART stands for Highway Addressable Remote Transducer. The HART protocol use the Bell 202 Frequency Shift Keying (FSK) standard to superimpose digital communication signals at a low level on top of the 4-20mA.

There are 3 types of HART commands:
- **Universal commands**
- **Common practice commands**
- **Transmitter specific commands**

Universal commands
These must be supported by all HART compatible transmitters. Examples of Universal Commands are: Read measured value, unit, tag name, description, date.

Common practice commands
A number of specific commands that are optional. Some of these are used by PTE200H and LT100, for example, read and write measurement range, time constant, loop
test, autozero, burst mode on/off.

Transmitter specific commands
Commands that are unique for a specific transmitter. PTE200H and LT100 has a number of these, for example alarm, transfer function, output signal calibration.

PI100 configuring tool

Conditions
A personal computer with the PI100 program installed must be connected to the transmitter or transducer loop, over a 470 ohm (min 250 ohm) resistor, via the HART-modem. The supply be switched on.

Overview
PI100 is a powerful tool to manage the transmitter PTE200H and LT100. The software provide the user with the possibility of managing the transmitter more efficient, compared with configuring the transmitter with a HART hand held terminal. Complete instructions can be found in PI100.

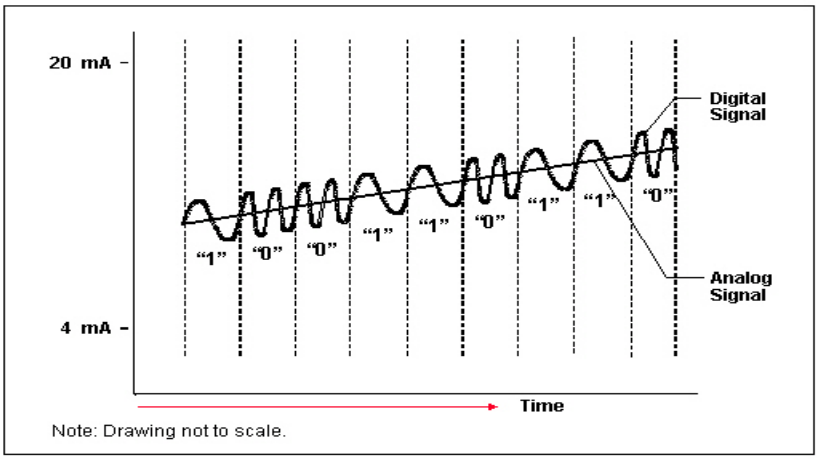
Example of the user interface:

Log values for analysis
Using PI100 you can log process values from a transmitter during a specific period and save the log file on the computer. The log files can then be linked to other applications using OLE. Of course PI100 can also be used to read live values without a logging.

Defining transfer functions
Using PI100 you can define transfer functions for e.g. non-linear tanks. The
transfer functions can be entered as curves with break points or as mathematical formula.

Maintenance calibration
PI100 facilitates calibration, which ensures exact measurements. It is easy to perform maintenance calibration using window management in PI100.

Administration of transmitters
Spare part management is simplified by storing different transmitters in a database. If a transmitter needs to be replaced, you just take a new, unconfigured from stock, and then send the configuration from the database to the transmitter.



Order codes and accessories

Description:	Code:
HART PC package complete	PI100P
HART modem	PI100H
PI100 PC program	PI100