

Specific directions for NPC- installation to HUTH -cash systems T400/T450

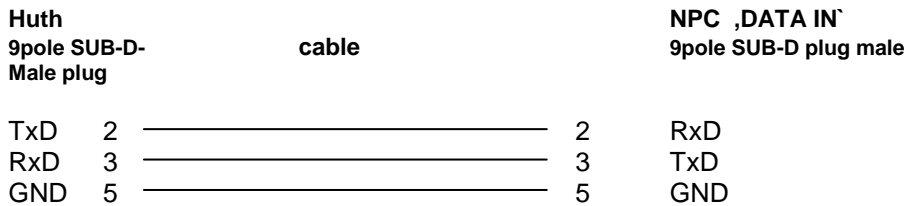
The HUTH protocol supports actions on the pumps and booking procedures from up to four points-of-sale. These data are made available at a joint interface port. The two possible operating types with one point-of-sale (standard) and with several points-of-sale are presented in the following

The data format of the interface of the point-of-sale system should be set to **9600 baud, 8 bit, no parity**.

When **using only one point-of-sale**, then all actions - as long as they are sent by the point-of-sale system - are transmitted. The point-of-sale number (generally **01**) must be entered in the POS Menu, however.

Note: The entry of pos-no "00" is a wildcard function: the information of all cash points will be transmitted.

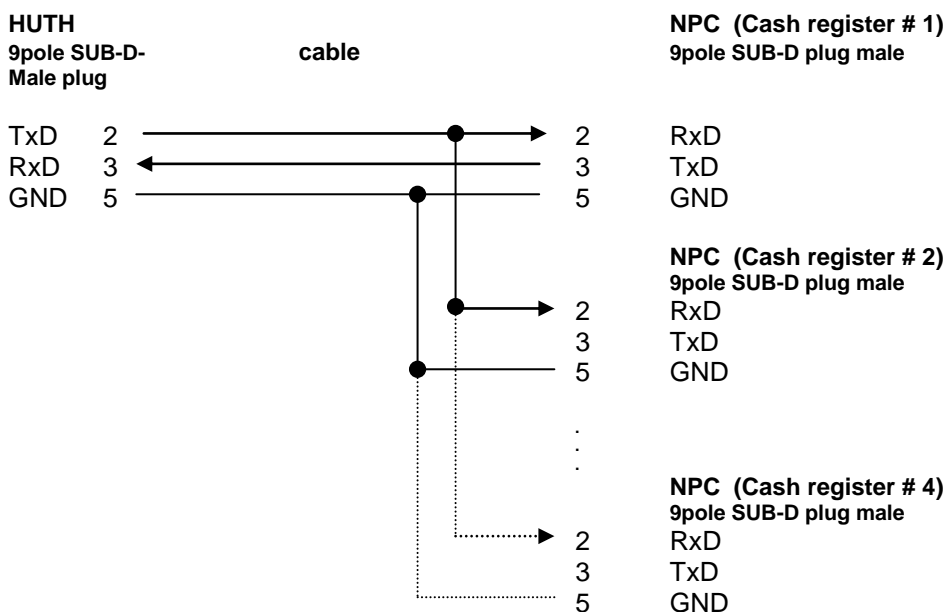
Actions on the pumps (pickup/replace nozzle etc.) will be ignored.



IMPORTANT: For newer HUTH models, the interface configuration is identical to a PC, i.e. if necessary, PIN 2 and 3 should be exchanged on the Huth side (e.g. by using the null-modem adapter!).

With **two or more connected cash registers**, generally only the data of point-of-sale x should be included in the camera image from point-of-sale x. Because of this, an individual **NPC** should be provided for each cash register. Corresponding to the point-of-sale location, the individual **NPC** must be configured with the respective register number (-> POS Menu). Only booking procedures are recognized at the respective cash point. Actions at the pumps are not taken into account.

From an interface perspective, there is a fundamental problem, since the Scheidt & Bachmann point-of-sale system only transmits the booking data on one port, but these data are to be sent to at least two **NPCs**. All of these sent data must be confirmed with an acknowledgement by the **converter**, but only by one and not all connected devices or channels. To solve this problem, the transmit line of the point-of-sale (TxD) combined with the mass (GND) is connected to all **NPCs**. The feedback line (RxD) for the sending confirmation is only connected to the TMS system by one converter. This results in the following principle for the connection of two or more converters to the Cash system:



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