

- For measuring, displaying and archiving physical quantities (level, pressure, flow, temperature, etc.).
- Universal industrial data logger, optionally with six-digit display function (PCU-100-D).
- Single input channel - 4-20 mA current loop, optionally with HART[®] protocol support for digital data transfer (PCU-100-_-H).
- Connection to PC via micro USB port, clear application (download at www.dinel.cz) for setting up the unit and the connected sensor (HART[®] supported version only).
- Includes power supply for the sensor (transmitter).
- Easy to read backlit LCD display with configurable display, including bargraph.
- Large selection of display units, including user-defined.
- Data storage with user-defined period on internal continuously overwritten FLASH memory.
- FLASH memory capacity 500,000 records.
- Option to export data to microSD card (periodically or when internal memory is full).
- Many conversion characteristics: linear, quadratic, square root, user-defined tables with linear approximation or conversion to volume according to specified tank parameters.
- Battery-backed real-time circuit.
- Fully user-defined relay output (alarm, two-position control).
- Extendable with communication modules.
- Supply voltage 85-253 V AC.



Programmable control unit PCU-100 is used for measurement, displaying and archiving of the physical value (liquid level, pressure, flow, temperature, etc.). One transducer of physical magnitude with an analogue 4-20 mA output can be connected to the unit.

Different types of conversion (converting) characteristics (linear, square, root and user defined), may be selected, also the tank dimensions for conversion to the volume of the media may be specified. The unit is also available in the version without graphic LCD display that is replaced with the status LEDs. The unit has a battery backed real-time circuit. Archiving with user-defined period takes place on the internal flash memory with a capacity sufficient for more than 500,000 samples. Data can be exported to a micro SD card for additional processing.

User configuration is possible through a regular desktop application after connecting a PC via a micro USB connector located on the front panel of the unit. For the version fitted with an LCD display the configuration is also possible using the graphical menu and four membrane keys.

The unit is equipped with one input settings in the hardware configuration according to the type of unit. One relay output is fully user-configurable, including the possibility of two-state control. The functionality of the unit is expandable with optional modules. The units are built into the ABS/PC instrument boxes intended for wall mounting. Connection terminal is located inside the device.

RANGE OF APPLICATION

Programmable control unit can be used as a universal industrial data logger for monitoring of a measured value. Thanks to a relay output, it is also possible to use the unit for the control of the process of measured value using two-state control.

