U 100

UNIVERSAL INTELLIGENT INTERFACE FOR LIQUID LEVEL AND BOUNDARY LEVEL METERS

The U 100 device makes the computerized acquisition and processing of the measured data of a tank-farm equipped with maximum 100 level meters assembled with traditional parallel code transmitters possible. Thai gives the possibility of substituting the systems (MAK, CORVOL, SAM) applied earlier with up-to-date, intelligent, flexible systems.

The interfacing microcomputer collects measured data via the existing, earlier installed wiring and a digital multiplexer system.

If the number of level meters does not make the use of multiplexers necessary, the U 100 unit is suitable far processing measured data of maximum 10 level meters.

After code conversion and error test the U 100 microcomputer stores the collected data arranged by device addresses.

The U 100, reflecting to the scan request command received from the central unit on the data link in serial asynchronous farm, transmits collected data to the central computer as an answering telegram.

The communication between the control computer and the U 100 unit is performed by the protocol of Nuovo Pignone NP 6800 system (according to the attached documentation).

Any kind of computer equipped with RS232C interface, like VAX, MOTOROLA or IBM PC compatible, can serve as control central computer unit.

Specifications

Type number U 1 0 0 / M

Mechanical dimensions	400 x 300 x 150 mm wall mounted rock with lock
Standard type	normal, indoor
Protection	IP 54
Operating temperature range	-10 to +60 °C
Relative humidity	max. 90% non condensing
Connection	terminals, 2,5 mm^2 6 mm earthing screws
Cable inlet	through stuffing boxes
Mains voltage	220 V $^{+10}_{-15}$% AC
Power consumption	maximum 160 VA

Field connection

Outputs	24V DC level galvanically isolated overvoltage protected multiplexing 10+10 independent lines decade call 5 lines programmable call cycle time
I_{out} max. by outputs	1 A DC

(Only one of the outputs of decade "00" and "0" can be activated at the same time!)

Inputs	24 V galvanically isolated, overvoltage protected
At inputs: U_{in}	3 V DC min. 30 V DC max.
I_{in}	1 mA min.

Inputs and outputs are overvoltage protected and galvanically isolated!