6 DIGITS DISPLAY with BINARY, BCD, GRAY inputs, 4-20mA output and Ethernet

ANL36

- ***16 parallel digital inputs***
  Voltage or dry contact input
  BCD , GRAY, BINARY format

- ***Display, 96 x 48 mm format***
  measure on 6 digits
  unit on 4 alphanumeric digits

- ***option :***
  isolated analog output
  relay output
  RS485 link, Modbus RTU
  Ethernet link, Modbus TCP

- ***Application :*** *Interface for parallel output encoders*

The ANL36 is a parallel digital inputs display, it also allows the transmission of the input code by a communication port (RS485 or Ethernet) or its conversion into an analog signal.
Product configuration (resolution, encoding type: BCD, GRAY, BINARY, ...) can meet most applications.

Description :

Parallel digital inputs:
- 16 digital inputs
Digital input type: voltage level or dry contact
(a 22 V voltage source is available for dry contact polarization).
configurable type of encoding: BCD, GRAY, BINARY.
configurable resolution: from 1 to 16 bits signed or not.

Front face:
- Measure display: 6 digits, 14.2 mm red LEDs,
The display of input code may be in decimal format or in another user display range (correction factor).
The display allows to take into account an offset (tare).
- Units display: 4 digits alphanumeric LED matrix display.
- 3 push buttons.

Configuration:
The device can be configured via the front face or via the serial RS232 link. (USB to jack cable supplied separately).
Warning: the RS232 link is not isolated from the inputs.

Analog output option (ANL36/S)
- Configurable isolated analog output,
current or voltage : 0... 4... 20 mA or 0…10 V.
- configurable response time and security value.

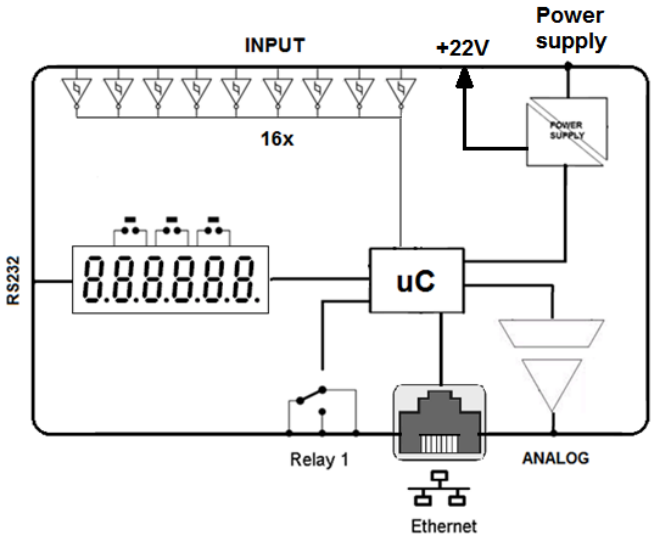
Relay option (ANL36/R1)
- 1 relay for threshold detection. Changeover contact.
- Threshold, direction, hysteresis, activation and deactivation delays are configurable.

Communication option (ANL36/C ; ANL36/CMTCP)

RS485 link	Modbus RTU protocol
Ethernet (RJ45) link	Modbus TCP protocol, Web server

Feature
- DIN panel case: 96x48mm
- Pluggable 1.5mm² spring terminal block,
- Conformal coating.
- protection rating : IP20 (IP65 in option).

Synoptic:



Version and order code:

Request a quote

ANL36	24 V or 48 V input (Binary, BCD, Gray).
ANL36HV	110 V or 127 V input (Binary, BCD, Gray).
ANL36LV	5 V or 12 V input (Binary, BCD, Gray).
ANL36/R1	+ 1 relay
ANL36/S	+ 1 analog output
ANL36/C	+ RS485 MODBUS LINK
ANL36/CMTCP	+ ETHERNET MODBUS TCP LINK

options /R, /S , /C , /CMTCP not combinable

DIGITAL INPUT

Logical state	Min	Max
Level 0	0 V	5 V
Level 1	12 V	60 V
Input impedance :	100 kOhms	

(All inputs are with common ground)
Measure rate : 70 per second

AUXILIARY

voltage source for inputs: 22Vdc / 50 mA, +/- 5%

ANALOG OUTPUT (12 bits resolution)

Type	Range	Accuracy
Current	0 ... 4 ... 20 mA	+/- 20 µA
Admissive load:	0 … 800 Ohms	
Voltage	0 ... 10 V	+/- 10 mV
Output impedance:	500 Ohms (0.1% internal shunt)	

Response time programmable from 5 ms to 60 s

RELAY

Switching power: 250Vac / 2A (500 VA)

COMMUNICATION

RS485 link:
Modbus RTU — from 1,2 to 38,4 kbps.
Connection — 2 wires screw terminal.

Ethernet Link: 10/100 M
Modbus TCP protocol
Connection — RJ45

POWER SUPPLY

Universal : (2 versions: standard and low voltage not polarized)

standard: 21 Vdc, 55 Vac....to.....265 Vac/dc
low voltage option: 12 Vdc....to.....30 Vdc.
consumption < 3 VA

ENVIRONMENT

Operating temperature	-10 to +60 °C
Storage temperature	-20 to +85 °C
Thermal drift (output)	< 20 ppm / °C (of full scale)
humidity	85 % (not condensing)
weigh	~ 180 g
Protection rating	IP20

Dielectric strength
2500 Vrms: supply / inputs, output
1000 Vrms: inputs / output, communication
2500 Vrms: relay / inputs
(inputs/inputs, no isolation, common ground)

MTBF (MIL HDBK 217F)	> 4 000 000 Hrs @ 25°C
Life time	> 200 000 Hrs @ 30°C

Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE

Immunity standard for industrial environments EN 61000-6-2		Emission standard for industrial environments EN 61000-6-4
EN 61000-4-2 ESD	*EN 61000-4-8 AC MF*	*EN 55011*
EN 61000-4-3 RF	*EN 61000-4-9 pulse MF*	
EN 61000-4-4 EFT	*EN 61000-4-11 AC dips*	*group 1 class A*
EN 61000-4-5 CWG	*EN 61000-4-12 ring wave*	
EN 61000-4-6 RF	*EN 61000-4-29 DC dips*	

CE

WIRING AND OUTLINE DIMENSIONS: