

A2X



Process indicator - controller - 5 digit - DIN 96x48

SPECIFICATIONS

- ✓ **Analog input: current and voltage**
- ✓ **Calibration points self acquisition**
- ✓ **Versions: 2 or 4 relays 5A/250Vac**
- ✓ **Relays actions: minimum, maximum, active-window, hysteresis**
- ✓ **Double analog outputs 4..20mA & 0..10Vdc**
- ✓ **Serial communication: Field bus type MODBUS RTU (RS485) or double RS232 ports**

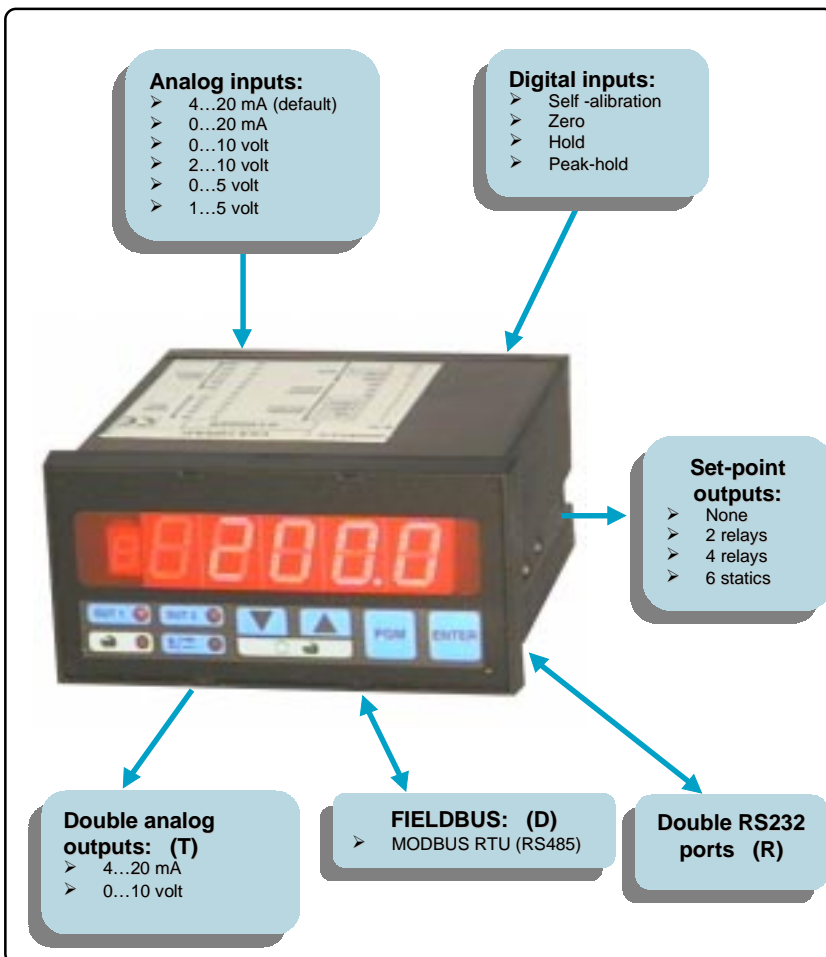
APPLICATION & PERFORMANCE

A2X indicators are completely dedicated to the monitoring and control of process analog signals coming from 4...20mA and 0...10 Vdc transmitters for measurement and control of pressure, level, temperature, flow rate and more.

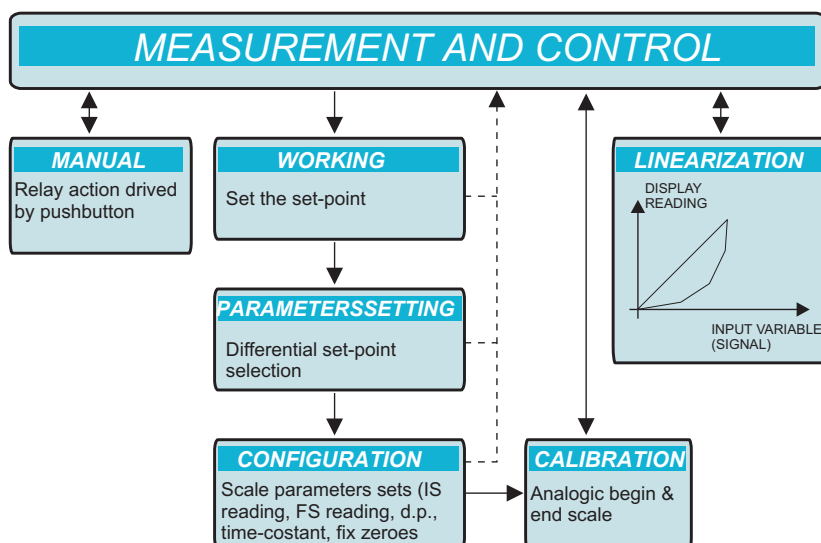
They have a wide field of application in the sector of plastic materials, in food, chemical, pharmaceutical industries, etc. A simple programming by a 4-key touch-panel keyboard and an efficient LED display make the device easy to use. The peculiar self-learning setting and the possibility to align the reading scale allow to use this product even in situations where the matching between the input signal and the visual display is not linear, in critical situations (difficult access to calibration) or variable conditions (change in sensors response depending on different products).

VERSIONS

- The following versions are available:
- Indicator (6 alarm thresholds max): A2X_ _
 - Indicator with double analog output (4 alarm thresholds max): A2X_ _T
 - Indicator with MODBUS RTU port (4 alarm thresholds max): A2X_ _D
 - Indicator with RS232 double serial port (4 alarm thresholds max): A2X_ _R.



CUSTOMER SET-UP STRUCTURE



A2X

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TECHNICAL DATA

PACKAGE

Case: panel mount 96x48 mm frontal IP54
 Cutout dimension: 92x45 mm; depth: 100 mm
 Case material: Noryl
 Keyboard: 4 membrane pushbuttons
 Connections: by extractable terminal block

ANALOG INPUTS

Measuring inputs: $\pm 0,1...40$ mA impedance 100 ohm
 $\pm 0,1...4$ V impedance 10 Kohm
 $\pm 4...40$ V impedance 110 Kohm

Maximum overload: 100% constant
 Transmitter supply: 24Vdc - 45mA max
 Safety: circuit to cut off connection 4...20 mA

DIGITAL INPUTS (IN1, IN2)

Signal: unpowered or static NPN contact max 24V / 6mA

A/D CONVERTER AND INDICATOR

Display (red led): 5+1 digit (polarity), max displayed value ± 99999

Character height: 12,5 mm
 Reading scale and d.p.: programmable
 A/D resolution: 20000 points; average conversion time 250mS
 Linearity: 0,0025%

POWER SUPPLY

Power supply: 24,115,230Vac, 24Vdc [1], 24VDCI [2]
 Consumption: max 3,3 VA (3,3 W)
 Tolerance: ± 10 %; frequency (AC): 50/60 Hz
 Data storage memory: EEPROM static memory

AMBIENTAL CONDITIONS

Operating temperature: $-10 \div 50$ °C
 Relative humidity: 0...95% not condensing
 Storage temperature: $-25 \div 70$ °C

[1] 24Vdc power supply not galvanically insulated version: negative input signal short-circuit to negative power supply.
 [2] 24Vdc power supply galvanically insulated version.

ALARM THRESHOLDS AND OUTPUTS

Alarms: 2, 4 relays; 6 NPN static outputs
 Relays: 5A 250V
 NPN output: 30mA 5...30V
 Possible manual operation

DOUBLE ANALOG OUTPUT (T option) [3]

Proportional to display value; start of scale and end of scale position programmable
 Signals: 0-10Vdc (minimum load 1Kohm)
 4-20mA (maximum load 250 ohm)
 Resolution: 2000 points
 Accuracy: 0,01 %
 Linearity: 0,0025 %

RS485 SERIAL PORT - MODBUS (D option) [3]

Communications protocol: MODBUS RTU
 Profile: all parameters
 Baud rate: 300...19200 baud
 Address: range 1... 247 (0 – broadcast)
 Configuration: 8 bit data; parity none; 1 stop bit

DOUBLE RS232 SERIAL PORT (R option) [3]

Protocol: read only measured value
 Baud rate: 150...9600 baud
 Address: range 1... 254
 Configuration: 8 bit data; parity none; 1 stop bit

LINEARIZATION (L option) [3]

number segment for linear programming: 20
 resolution: 0,1%

CONFORMITY TO CEE GUIDELINES

Directive: CEE 93/68
 CEE 89/336 (EMC)
 CEE 73/23 (BT)

[3] the above mentioned technical references are related to the A2X versions chosen.

