

# ATR444

## Blue line

Distribué par :

**COREMA**

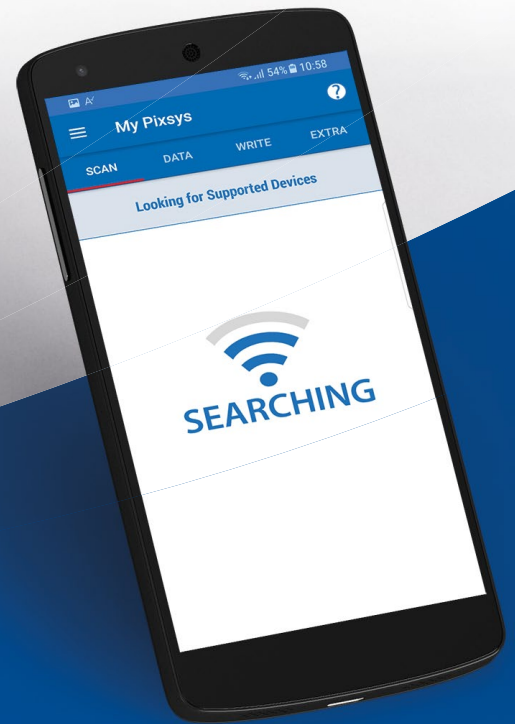
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Mail : contact@corema.fr  
Internet : www.corema.fr



Programmable by RFID /NFC  
No wiring required!



Single/Double Analogue Input – Single/Double PID control loop  
Powerful display, interactive text messages  
On-line programming Help  
Dynamic smart Tune  
C.T. loop break alarm  
Analogue Output  
Modbus RTU option

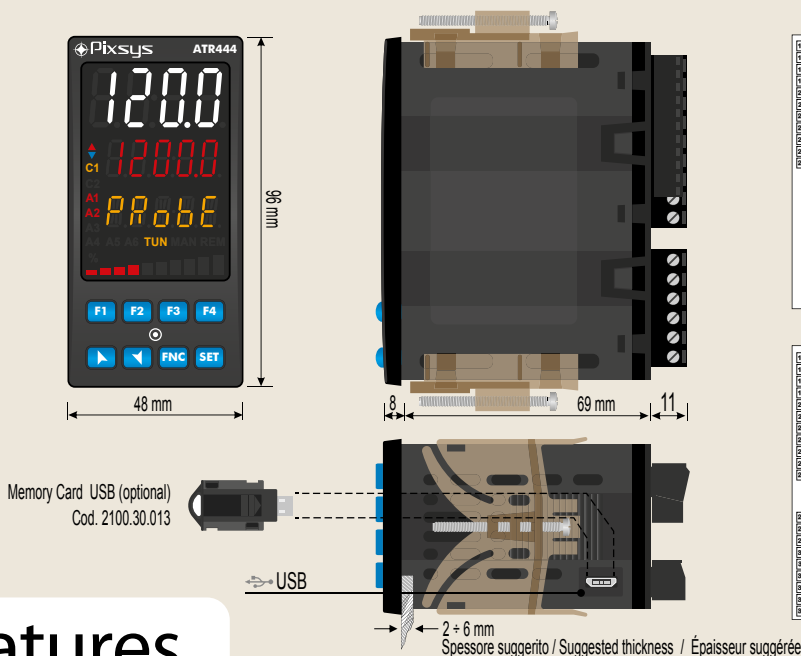
[www.corema.fr](http://www.corema.fr)

CONTROLE REGULATION MESURE AUTOMATISME

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**COREMA**   
BORDEAUX

Dima di foratura  
46 x 91 mm  
Frontal panel  
cut-out  
Trou de panneau



## Main features

BOX	48 x 96 (front panel) x 69 mm
POWER SUPPLY	24..230 VAC/VDC $\pm 15\%$ 50/60 Hz - galvanical isolation 2,5KV
POWER CONSUMPTION	13ABC (8W) - 14ABC-T (10W) - 15ABC (12W) - 22ABC (10W) - 24ABC-T (12W)
DISPLAY	4 digits 0,5" white + 5 digits 0,3" red
OPERATING CONDITIONS	Temperature 0-45 °C, humidity 35..95 RH%
MATERIAL	Box and front panel: PC UL94V2 self-extinguishing
WEIGHT	Approx. 245 g
SEALING	IP65 (front panel) IP20 (box and terminal bloks)
QUICK SET-UP OPTIONS	Memory Card, software LABSOFTVIEW, or EASY-UP codes
"MyPixsys" APP	Device setup via NFC for Android smartphone  Via BT-NFC (2000.35.099) for iOS smartphone

## Input

1/2 CONFIGURABLE	Res. 16 bit, selectable for TC type K, S, R, J, T, N, B (automatic compensation of the cold junction -25..85°C, $\pm 0,2\%$ F.S. $\pm 1$ digit F.S.), thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K ( $\beta$ 3435K), process signals 0..10 V (50000 points), 0/4..20mA (40000 points), 0..60 mV (25000 points), potentiometer 1..150 K $\Omega$ (50000 points)
SAMPLING TIME	Programmable up to 2,1 ms (frequency up to 470 Hz)
2/4 DIGITAL INPUT	Setpoint change, Hold, Run, Tuning launch, Start / Stop, Lock configuration
1 CURRENT TRANSFORMER (C.T.) INPUT	Selection C.T. 50 mA, 800 $\mu$ s - 4096 points

## Outputs

2/3 RELAYS	Relay 5 A - 250 V AC resistive change
2 SSR	12 / 24 V DC - 25 mA max
1/2 ANALOGUE	Selection 4..20 mA (40000 points $\pm 0,2\%$ F.S.) or 0..10 V DC (40000 points $\pm 0,2\%$ F.S.) for command or retransmission PV / SPV
SERIAL COMMUNICATION	RS485 Modbus RTU - Slave (4800..115200 baud code-T)

## Software features

CONTROL ALGORITHMS	ON - OFF with hysteresis, P, P.I., P.I.D., P.D. time proportioned
TUNING	Manual or automatic
DATA PROTECTION	Lock of control / alarm setpoint / Access to parameters by password
ALARM MODES	Absolute / Threshold, Band, High / Low deviation. Alarm with optional manual reset. Loop Break Alarm function
AUTO / MANUAL FUNCTION	Output percentage command also with automatic change in case of sensor failure
DOUBLE P.I.D.	Heating / Cooling P.I.D.
SOFT-START	Rising gradient expressed as Degrees / Hour or fixed output percentage
OPEN / CLOSE LOGIC	Open / Close logic for motorized valves

## Ordering codes

ATR444-13ABC	1 Analogue Input + 3 Relays 5A + 2 SSR + 4 Digital Inputs + 1 Analogue Output V/mA + 1 CT
ATR444-14ABC-T	1 Analogue Input + 4 Relays 5A + 2 SSR + 2 Digital Inputs + 1 Analogue Output V/mA + 1 CT + RS485
ATR444-15ABC	1 Analogue Input + 5 Relays 5A + 2 SSR + 4 Digital Inputs + 1 CT
ATR444-22ABC	2 Analogue Inputs + 2 Relays 5A + 2 SSR + 4 Digital Inputs + 1 Analogue Output V/mA + 2 CT
ATR444-24ABC-T	2 Analogue Inputs + 4 Relays 5A + 2 SSR + 4 Digital Inputs + 2 Analogue Outputs V/mA + 1 CT + RS485