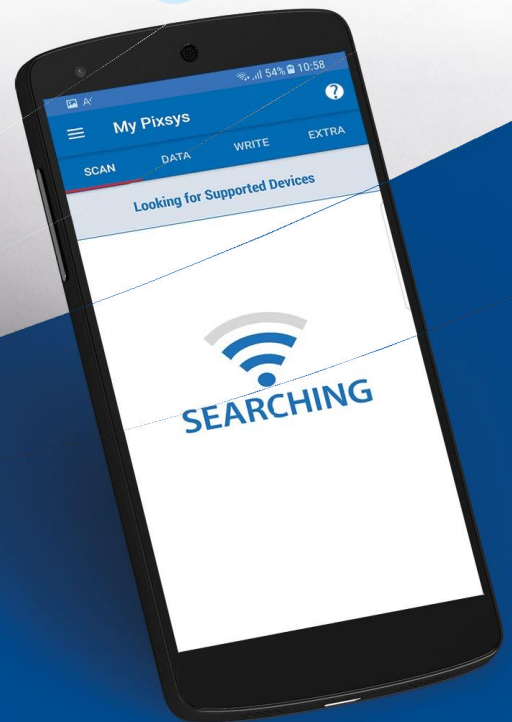


# DRR244

## Blue line



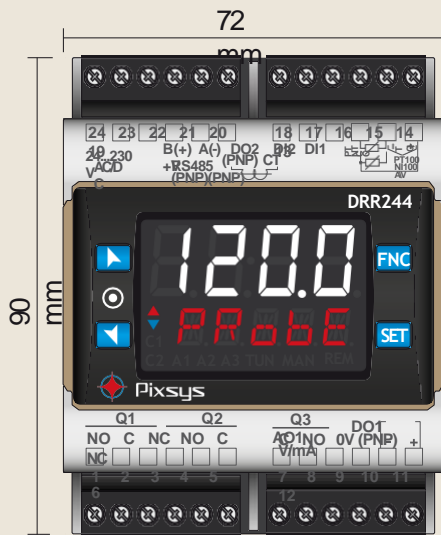
Programmable by RFID /NFC  
No wiring required!



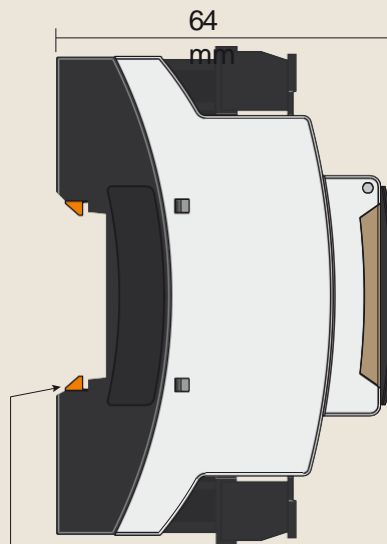
Powerful display, interactive text messages  
On-line programming Help  
Dynamic smart Tune  
C.T. loop break alarm  
Analogue Output  
Modbus RTU option

### Calex Electronics Limited

Leedon House, Chartmoor Road, Leighton Buzzards  
Bedfordshire, LU7 4TN, England  
[www.calex.co.uk](http://www.calex.co.uk)

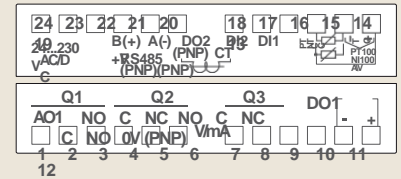
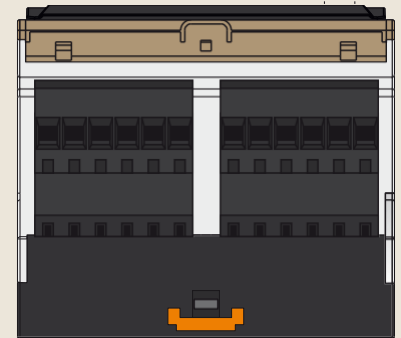


Extractable terminal blocks Morsettiere Estraibili



Din rail mounting guide EN50022 Attacco a guida DIN EN50022

Memory Card USB (option a) Cod. 2100.30.013



# Main features

BOX	72 x 90 (front panel) x 64 mm
POWER SUPPLY	24..230 V AC / DC $\pm 15\%$ 50/60 Hz - galvanical isolation 2,5KV
POWER CONSUMPTION	8 W
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 UL94V0
WEIGHT	Approx. 210 g
SEALING	Open type, IP20 (not UL evaluated)
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 INPUTS	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	2x Relays 5 A (for Q1 and Q2), 1x Relay 2 A (for Q3) - 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

DRR244-13ABC-T	1 Analogue Input + 2 Relays 5A + 1 Relay 2A + 2 SSR + 2 Digital Inputs + 1 Analogue Output V/mA + RS485 + C.T.
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