

T82N CATALOG

A RANGE OF TRANSDUCERS DEDICATED TO NUCLEAR ENVIRONMENTS

- More than 40 years' experience in the nuclear sector
- Products without programmable digital components
- Configuration on request
- K3-qualified products





Chauvin Arnoux Energy _____

Chauvin Arnoux Energy, a company in the Chauvin Arnoux Group, is specialized in fixed equipment for measuring and supervising electrical networks to meet the needs of cutting-edge industries for intensive use in severe environments



ELECTRICAL POWER GENERATION



ELECTRICAL POWER TRANSMISSION AND DISTRIBUTION



RAIL



NAVAL



INDUSTRY AND TERTIARY
BUILDINGS

A FRENCH BRAND WITH INTEGRATED PRODUCTION

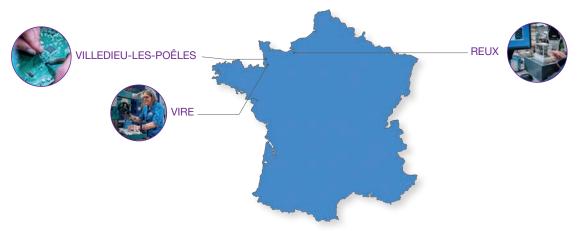
Chauvin Arnoux Energy, a French company in the Chauvin Arnoux Group, handles all aspects of product manufacturing; from design through to final testing of the equipment. Our teams guarantee the quality and reliability of all the instruments we supply, as well as support lasting decades.

A LONG-TERM OFFERING

Our thorough mastery of our industrial know-how in our factories in France and our ability to keep abreast of the changes in the markets (materials used in our equipment) enable us to guarantee constant quality and long-term availability for our products.

Our production sites and innovation center

For Chauvin Arnoux, manufacturing in France is a matter of course. Our manufacturing "made in France" guarantees quality and traceability. Our mastery of the production chain enables us to monitor products and solutions bearing the Chauvin Arnoux brand.



VILLEDIEU-LES-POÊLES _

More than a hundred people spread over an area of 4000 square meters dedicated mainly to manufacturing electronic items.

Here we make flexible or rigid single-sided and double-sided printed circuit boards up to Class V. 800,000 components can thus be assembled every week for CA Energy and the Group's other brands.



VIRE

Vire is the site where our current sensors are assembled. In two main buildings covering 4,300 and 1,400 square meters, respectively, 140 people produce our spare parts.

The first building produces the bar-turned, machined and milled mechanical parts for our measuring instruments and the screening or casings made of sheet metal. The second is dedicated to plastic injection for molding our products' casings.



REUX _____

10,000 square meters of buildings housing the Group's logistics, the spare parts warehouses, the assembly workshops, the finished products and the shipment department.

More than 60,000 references are managed in these warehouses, which group the parts needed to manufacture the measuring instruments assembled on the site and the finished products ready for shipment all over the world. The site is equipped with a single platform from which all the instruments from the Group's brands are shipped to France, our subsidiaries and the international markets.



T82N RANGE

Nuclear environments analog transducers for AC / DC / Temperature electrical quantities, class 0.5



Description

The **T82N** models measure an AC electrical quantity and convert it into a standardized, low-level DC current or voltage signal (e.g. 4...20 mA).

They are normally used in conjunction with analog or digital measuring instruments (panel meters, recorders, etc.), centralized supervision systems (PLCs, SCADA, building management automation systems, etc.) and are also incorporated in measurement and control loops.



USER SECTORS



Nuclear



Plug-in version with special socket for plate mounting or DIN rail mounting



- Ideal for the requirements of the nuclear market
- Plate-mounted and plug-in versions
- Configurable on request: Input quantities, transfer curve, output signal, etc.

IAR 1210B RMS AC current

UAR 1210B RMS AC voltage

Tivio Ao voltage

FAR 1210B Frequency

UCR 1420 / 1220B DC voltage QAR 1232B Reactive power

PAR 1232B Active power

JAR 1211B Phase angle

RCL 1220B Temperature

ELECTRICAL SPECIFICATIONS

Inputs

Short-term overload:

- U input: 2 Un during 1s repeated 10 times - I input: 20 In during 1s repeated 10 times

DC overload:

- U input: 1.2 Un - I input: 1.2 Un

Frequency:

- 50 Hz (45....55 Hz) -60 Hz (55....65 Hz)

Analog output

- Accuracy: class 0.5 according to IEC 60688 April 2013
- Response time: 120 ms to 260 ms at 95 % of output current
- Current output operating resistance: 20 V / Is
- Influence of operating resistance: \pm 0.1 % from 0 Ω to max. operating resistance
- Peak-to-peak ripple: 0.2 à 0.4 %

Auxiliary power supply

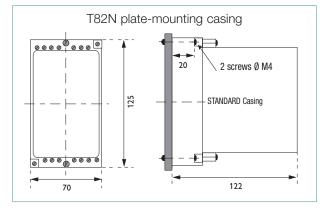
Operating range:

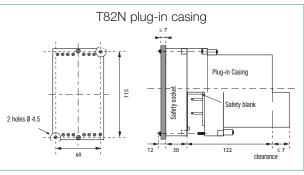
- $\pm 10 \%$ from 100/ $\sqrt{3}$ Vac to 440 Vac
- ± 20 % from 24 to 125 Vdc

Consumption:

- ≤ 3 VA from 100/√3 to 440 Vac
- ≤ 3 W from 24 to 125 Vdc

DIMENSION (IN MM)





REFERENCE STANDARDS

• Electromagnetic compatibility: 2014/30/CE(CEM) IEC 61326-1

(07/2013)

• Safety: 2006/95/CE

IEC 61010-1 (01/2011)

• Metrological: IEC 60688 (04/2013)

• Climatic: IEC 60688 (04/2013)

• Mechanical: IEC 60068-2-6 (04/2008)

IEC 60068-2-27 (07/2009)

OPERATING ENVIRONMENT

Operating temperature: -10 to +60 °C

- Operating humidity: Up to 95 % to 45 °C
- Storage temperature: -25 to +70 °C

CASINGS

- Screw connection terminals, 2 x 2.5 mm² or 1 x 6 mm²
- IP20 protection rating as per IEC 60529
- Weight: 0.60 to 0.85 kg (Socket: 0.25 kg)

MOUNTING ACCESSORIES

Connection socket for plug-in Casing

Sock



| | Socket | | | | | |
|-----------|--------|-----------|--|--|--|--|
| Model | Туре | Reference | | | | |
| UAR 1210B | 5 | EMBB 4005 | | | | |
| IAR 1210B | 4 | EMBB 4004 | | | | |
| PAR 1232B | 3 | EMBB 4003 | | | | |
| QAR 1232B | 3 | EMBB 4003 | | | | |
| FAR 1210B | 5 | EMBB 4005 | | | | |
| JAR 1211B | 4 | EMBB 4004 | | | | |
| UCR 1420B | 5 | EMBB 4005 | | | | |
| RCL 1220B | 6 | EMBB 4006 | | | | |

 Mounting on DIN rail for plate-mounting or plug-in Casing



| Model | Reference |
|-----------------------------------|-----------|
| Mounting on symmetrical DIN rail | PDIN SYME |
| Mounting on asymmetrical DIN rail | PDIN ASYM |

ELECTRICAL CONNECTIONS

MS01-7562 or the User's Manuals.





Normeurope analog panel meters

Round / square barrel For viewing an instantaneous and variable quantity.



Sockets

For plug-in casings



Mounting on DIN rail
Plate-mounting or plug-in

RMS AC VOLTAGE

| Model | | UAR 1210B | | | | | |
|---------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Transfer curv | re | | | | | | |
| Linear | | | | | | | |
| Casing | | | | | | | |
| Fixed / plate-r | mounting | 0.7 kg | | | | | |
| Measurement | t input | | | | | | |
| Voltage Un | | Direct or on VT: : "100/ $\sqrt{3}$ " "110/ $\sqrt{3}$ " "115/ $\sqrt{3}$ " "120/ $\sqrt{3}$ " "132/ $\sqrt{3}$ " "90" "100" "110" "115" "120" "127" "132" "138" "138" "120" "220" "250" "300" "360" "380 Vac | | | | | |
| Frequency Fn | | 50 Hz \pm 5 Hz and 60 Hz \pm 5 Hz | | | | | |
| Measurement | range 0Xmax | 01.25 Un | | | | | |
| Consumption | | 1kΩ/ V or 0.4 VA at 400 Vac | | | | | |
| Analog outpu | t | | | | | | |
| Current | 0Ymax | "0/1 mA" "0/2.5 mA" "0/5 mA" "0/10 mA" "0/20 mA" | | | | | |
| Current | YminYmax | "1/5 mA" "2/10 mA" "4/20 mA" | | | | | |
| Voltage | 0Ymax | "0/1 V" "0/5 V" "0/10 V" | | | | | |
| voitage | YminYmax | "1/5 V" "2/10 V" | | | | | |
| Accuracy | | 0.5 % | | | | | |
| Auxiliary supp | ply | | | | | | |
| Alternating current | | "100/√3 Vac" "110/√3 Vac" "115/√3 Vac" "100 Vac" "110 Vac" "115 Vac" "127 Vac" "220 Vac" "230 Vac" "240 Vac" | | | | | |
| Direct current | | "24 Vdc" "48 Vdc" "110 Vdc" "125 Vdc" | | | | | |
| Casing protect | ction rating | | | | | | |
| Fixed / plate-r | mounting | IP20 | | | | | |

| | Model | Casing | Direct Un or on VT | Measurement range | Fn | Analog output | Auxiliary supply | Protection | Tropicalization |
|---------|------------|--------|--------------------|-------------------|-------|---------------|------------------|------------|-----------------|
| | | | | | | | | | |
| Example | UAR 1210 B | Fixed | Direct 100 Vac | 0120 Vac | 50 Hz | 4-20 mA | 220 Vac | IP 20 | \checkmark |





Normeurope analog panel meters

Round / square barrel For viewing an instantaneous and variable quantity.



Sockets

For plug-in casings



Mounting on DIN rail

Plate-mounting or plug-in

RMS AC CURRENT

| Model | | IAR 1210B | | | | | |
|-----------------|-------------|-----------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Transfer curve | • | | | | | | |
| Linear | | | | | | | |
| Casing | | | | | | | |
| Fixed / plate-m | ounting | 0.7 kg | | | | | |
| Measurement | input | | | | | | |
| Current In | | Direct 0.5 to 10 A or on CT 1/5 A | | | | | |
| Frequency Fn | | 50 Hz ±5 Hz and 60 Hz ±5 Hz | | | | | |
| Measurement r | ange 0Xmax | 0 to In and 0 to 1.3 In if CT present | | | | | |
| Consumption | | ≤ 0.2 VA | | | | | |
| Analog output | | | | | | | |
| Current | 0Ymax | "0/1 mA" "0/2.5 mA" "0/5 mA" "0/10 mA" "0/20 mA" | | | | | |
| Current | YminYmax | "1/5 mA" "2/10 mA" "4/20 mA" | | | | | |
| Voltage | 0Ymax | "0/1 V" "0/5 V" "0/10 V" | | | | | |
| voitage | YminYmax | "1/5 V" "2/10 V" | | | | | |
| Accuracy | | 0.5 % | | | | | |
| Auxiliary supp | ly | | | | | | |
| Alternating cur | rent | "100/√3 Vac" "110/√3 Vac" "115/√3 Vac" "100 Vac" "110 Vac" "115 Vac" "127 Vac" "220 Vac" "230 Vac" "240 Vac" | | | | | |
| Direct current | | "24 Vdc" "48 Vdc" "110 Vdc" "125 Vdc" | | | | | |
| Casing protect | tion rating | | | | | | |
| Fixed / plate-m | ounting | IP20 | | | | | |

| | Model | Casing | Direct In or on CT | Measurement range | Fn | Analog output | Auxiliary supply | Protection | Tropicalization |
|---------|------------|--------|--------------------|-------------------|-------|---------------|------------------|------------|------------------------------|
| | | | | | | | | | |
| Example | IAR 1210 B | Fixed | 1000/5 A | 01300 A | 50 Hz | 4-20 mA | 48 Vdc | IP 20 | $ \overline{\mathcal{L}} $ |





Normeurope analog panel meters

Round / square barrel For viewing an instantaneous and variable quantity.



Sockets

For plug-in casings



Mounting on DIN rail

Plate-mounting or plug-in

ACTIVE POWER

| Model | | PAR 1232 B | | | | | |
|-------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Network + co | nnections | | | | | | |
| Balanced three | e-phase - 3 wires | | | | | | |
| Unbalanced th | ree-phase - 3 / 4 wires | | | | | | |
| Transfer curve | e | | | | | | |
| Linear | | | | | | | |
| Casing | | | | | | | |
| Fixed / plate-n | nounting | 0.85 kg | | | | | |
| Measurement | input | | | | | | |
| Current In | | Direct or on CT: "1" "5" | | | | | |
| Ph-N voltage U | Jn | Direct or on VT "100/√3" "110/√3" "115/√3" "400/√3" | | | | | |
| Ph-Ph voltage | Un | Direct or on VT: "100" "110" "115" "120" "127" "230" "240" "380" "400" | | | | | |
| Frequency Fn | | 50 Hz \pm 5 Hz and 60 Hz \pm 5 Hz | | | | | |
| Measurement range 0Xmax | | $\pm 1.35 \ge Sn^{(1)} \ge \pm 0.50$ | | | | | |
| Consumption | | I input: \leq 0.2 VA ; U input: \geq 500 Ω / V | | | | | |
| Analog output | t | | | | | | |
| | 0Ymax | "0/1 mA" "0/2.5 mA" "0/5 mA" "0/10 mA" "0/20 mA" | | | | | |
| Current | YminYmax | "1/5 mA" "2/10 mA" "4/20 mA" "1/3/5 mA" "2/6/10 mA" "4/12/20 mA" "-1/0/1 mA" "-2.5/0/2.5 mA" "-5/0/5 mA" "-10/0/10 mA" "-20/0/20 mA | | | | | |
| | 0Ymax | "0/1 V" "0/5 V" "0/10 V" | | | | | |
| Voltage | YminYmax | "1/5V" "2/10V" "-1/0/1V" "-5/0/5V" "-10/0/10 V | | | | | |
| Accuracy | | 0.5 % | | | | | |
| Auxiliary supp | oly | | | | | | |
| Alternating cu | rrent | "100/√3 Vac" "110/√3 Vac" "115/√3 Vac" "100 Vac" "110 Vac" "115 Vac" "127 Vac" "220 Vac" "230 Vac" "240 Vac" | | | | | |
| Direct current | | "24 Vdc" "48 Vdc" "110 Vdc" "125 Vdc" | | | | | |
| Self-powered | | For voltages "100 Vac" "110 Vac" "115 Vac" "120 Vac" " 127 Vac" "230 Vac" "240 Vac" | | | | | |
| Casing protec | ction rating | | | | | | |
| Fixed / plate-n | nounting | IP20 | | | | | |

(1) Sn = \sqrt{x} I x cos ϕ (single-phase network)) Sn = 3 x \sqrt{x} I x cos ϕ (Balanced three-phase, Unbalanced three-phase 4 wires) Sn = $\sqrt{3}$ x U x I x cos ϕ (Network TE, TNE 3 fils)

rameters to be specified when ordering

| | Model | Network | Casing | Direct In or on CT | | /leasuremen range | nt Fn | Analog output | Auxiliary supply | Protection | Tropicalization |
|---------|------------|-----------------------|--------|--------------------|--------------------|----------------------|----------|---------------|------------------|------------|-----------------|
| * | | | | | | | | | | | |
| Example | PAR 1232 B | Unbal. 3ph 4 wires | Fixed | CT 1000/ 5 A | VT 20 kV/ 100 V | 0 120 V ac | 50 Hz | 4-20 mA | 220 Vac | IP 20 | Z |





Normeurope analog panel meters

Round / square barrel For viewing an instantaneous and variable quantity.



Sockets

For plug-in casings



Mounting on DIN rail

Plate-mounting or plug-in

REACTIVE POWER

| Model | | QAR 1232B |
|-----------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Network + co | nnections | |
| Unbalanced th | ree-phase - 3 / 4 wires | |
| Transfer curv | e | |
| Linear | | |
| Casing | | |
| Fixed / plate-r | nounting | 0.85 kg |
| Measurement | t input | |
| Current In | | Direct or on CT: "1" "5" |
| Ph-N voltage | | Direct or on VT "100/√3" "110/√3" "115/√3" "400/√3" |
| Ph-Ph voltage | Un | Direct or on VT "100" "110" "115" "120" "127" "230" "240" "380" "400" |
| Frequency Fn | | 50 Hz ±5 Hz and 60 Hz ±5 Hz |
| | range 0Xmax | $\pm 1.35 \ge \text{Sn}^{(1)} \ge \pm 0.50$ |
| Consumption | | I input: \leq 0.2 VA ; U input: \geq 500 Ω / V |
| Analog outpu | | |
| | 0Ymax | "0/1 mA" "0/2.5 mA" "0/5 mA" "0/10 mA" "0/20 mA" |
| Current | YminYmax | "1/5 mA" "2/10 mA" "4/20 mA" "1/3/5 mA" "2/6/10 mA" "4/12/20 mA" "-1/0/1 mA" "-2.5/0/2.5 mA" "-5/0/5 mA" "-10/0/10 mA" "-20/0/20 mA |
| | 0Ymax | "0/1 V" "0/5 V" "0/10 V" |
| Voltage | YminYmax | "1/5V" "2/10V" "-1/0/1V" "-5/0/5V" "-10/0/10 V |
| Accuracy | | 0.5 % |
| Auxiliary supp | ply | |
| Alternating cu | rrent | "100/√3 Vac" "110/√3 Vac" "115/√3 Vac" "100 Vac" "110 Vac" "115 Vac" "127 Vac" "220 Vac" "230 Vac" "240 Vac" |
| Direct current | | "24 Vdc" "48 Vdc" "110 Vdc" "125 Vdc" |
| Self-powered | | For voltages "100 Vac" "110 Vac" "115 Vac" "120 Vac" " 127 Vac" "230 Vac" "240 Vac" |
| Casing protect | ction rating | |
| Fixed / plate-n | nounting | IP20 |
| | | |

(1) Sn = \sqrt{x} I x cos ϕ (single-phase network) Sn = 3 x \sqrt{x} I x cos ϕ (Balanced three-phase, Unbalanced three-phase 4 wires) Sn = $\sqrt{3}$ x U x I x cos ϕ (Balanced three-phase, Unbalanced three-phase 3 wires)

range Parameters to be specified when ordering

| | Model | Network | Casing | Direct In or on CT | Direct Un or on VT | Measureme range | nt Fn | Analog output | Auxiliary supply | Protection | Tropicalization |
|---------|------------|-----------------------|--------|--------------------|-----------------------|-----------------|----------|------------------|------------------|------------|-----------------|
| * | | | | | | | | | | | |
| Example | QAR 1232 B | Unbal. 3ph 4 wires | Fixed | CT 1000/ 5 A | VT 20 kV/ 100 V | 0 2.77 MW | 50 Hz | 420 mA | 220 Vac | IP 20 | Z |





Normeurope analog panel meters

Round / square barrel For viewing an instantaneous and variable quantity.



Sockets

For plug-in casings



Mounting on DIN rail

Plate-mounting or plug-in

FREQUENCY

| Model | | FAR 1210B | | | | | |
|-----------------|----------------|----------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Measurement | | | | | | | |
| Measurement | type | Effective value | | | | | |
| Input type | | | | | | | |
| Casing | | | | | | | |
| Fixed / plate-n | nounting | 0.7 kg | | | | | |
| Measurement | input | | | | | | |
| Voltage Un | | Direct or on VT : "100/ $\sqrt{3}$ " "110/ $\sqrt{3}$ " "115/ $\sqrt{3}$ " "100" "110" "115" "120" "127" "230" "240" "380" | | | | | |
| Measurement | range XminXmax | "45/55 Hz" "48/52 Hz" "49/51 Hz" " "55/65 Hz" "58/62 Hz" "59/61 Hz" | | | | | |
| Consumption | | 1 k Ω / V | | | | | |
| Analog output | t | | | | | | |
| Transfer curve | | Linear | | | | | |
| Current | 0Ymax | "0/1 mA" "0/2.5 mA" "0/5 mA" "0/10 mA" "0/20 mA" | | | | | |
| Current | YminYmax | "1/5 mA" "2/10 mA" "4/20 mA" | | | | | |
| Voltage | 0Ymax | "0/1 V" "0/5 V" "0/10 V" | | | | | |
| voitage | YminYmax | "1/5V" "2/10V" | | | | | |
| Accuracy | | 0.5 % | | | | | |
| Auxiliary supp | oly | | | | | | |
| Alternating cu | rrent | "100/√3 Vac" "110/√3 Vac" "115/√3 Vac" "100 Vac" "110 Vac" "115 Vac" "127 Vac" "220 Vac" "230 Vac" "240 Vac" | | | | | |
| Direct current | | "24 Vdc" "48 Vdc" "110 Vdc" "125 Vdc" | | | | | |
| Self-powered | | | | | | | |
| Casing protec | tion rating | | | | | | |
| Fixed / plate-n | nounting | IP20 | | | | | |

range Parameters to be specified when ordering

| | Model | Casing | Direct Un or on VT | Measurement range | Analog output | Auxiliary supply | Protection | Tropicalization |
|---------|------------|--------|-----------------------|-------------------|------------------|------------------|------------|-----------------|
| * | | | | | | | | |
| Example | FAR 1210 B | Fixed | Direct 100 Vac | 4555 Hz | 420 mA | 220 Vac | IP 20 | V |



Normeurope analog panel meters

Round / square barrel For viewing an instantaneous and variable quantity.



Sockets

For plug-in casings



IAD 1011D

Mounting on DIN rail

Plate-mounting or plug-in

PHASE ANGLE

Model

| Model | | JAR 1211B | | | |
|----------------|-------------|----------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Network | | | | | |
| Single-phase | | | | | |
| Casing | | | | | |
| Fixed/plug-in | | 0.7 kg | | | |
| Measurement | input | | | | |
| In Current | | Direct or on CT: "1" "5" "10 A" | | | |
| Un Voltage | | Direct or on VT : "100/ $\sqrt{3}$ " "110/ $\sqrt{3}$ " "115/ $\sqrt{3}$ " "100" "110" "115" "127" "230" "240" "380" "400" | | | |
| Fn Frequency | | 50 Hz, 60 Hz | | | |
| Measurement | range 0Xmax | 0,5AV-1-0,2AR / 0,5AV-1-0,5AR / 0,8AV-1-0,2AR | | | |
| Consumption | | Input I: ≤ 0.3 VA; Input U: ≥ 1 k Ω / V | | | |
| Analog output | t | | | | |
| | | Linear | | | |
| Current | 0Ymax | "0/1 mA" "0/2 mA" "0/2.5 mA" "0/5 mA" "0/10 mA" "0/20mA" | | | |
| Current | YminYmax | "4/20 mA" | | | |
| Voltage | 0Ymax | "0/1 V" "0/5 V" "0/10 V" | | | |
| voitage | YminYmax | "1/5V" "2/10V" | | | |
| Accuracy | | 0.5 % | | | |
| Auxiliary powe | er supply | | | | |
| Alternating cu | rrent | "100/√3 Vac" "110/√3 Vac" "115/√3 Vac" "100 Vac" "110 Vac" "115 Vac" "127 Vac" "220 Vac" "230 Vac" "240 Vac" | | | |
| Direct current | | "24 Vdc" "48 Vdc" "110 Vdc" "125 Vdc" | | | |
| Self-powered | | | | | |
| Protection for | casing | | | | |
| Fixed/plug-in | | IP20 | | | |

CUSTOMIZED PRODUCT

★ Parameters to be specified when ordering

| A | Model | Casing | In Direct or on CT | Un Direct or on VT | Measurement range | Analog output | Auxiliary power supply | Protection | Tropicalization |
|---------|------------|--------|--------------------|--------------------|------------------------|------------------|------------------------|------------|-----------------|
| * | | | | | | | | | |
| Example | JAR 1211 B | Fixed | CT 1000/5 A | Direct : 100 Vac | 0.5 LEAD/1/ 0.5 LAG | 4/20 mA | 220 Vac | IP 20 | V |





Normeurope analog panel meters

Round / square barrel For viewing an instantaneous and variable quantity.



Sockets

For plug-in casings



Mounting on DIN rail

Plate-mounting or plug-in

VOLTAGE DC

| Model UCR 1420 / 1220B | |
|--------------------------|-----------------|
| Measurement | |
| DC voltage | |
| Transfer curve | |
| Linear | |
| Casing | |
| Fixed | 0.7 kg |
| Plug-in | 0.7 kg |
| Voltage input | |
| Voltage Un | 5mV ≤ Un ≤ 300V |
| Measurement range 0 Xmax | 5mV 300V |

Umax ≤ 0.3V : 1MΩ

 $\begin{array}{ll} \mbox{Input resistance} & \mbox{Umax} \leqslant 20\mbox{V}: 30\mbox{k}\Omega + (10\mbox{k}\Omega / \mbox{Umax}) \\ \mbox{Umax} \leqslant 200\mbox{V}: \mbox{Umax} * 10\mbox{k}\Omega \end{array}$

Umax > 200V : 2.5MO

| | | $Umax > 200V : 2.5M\Omega$ | | | | | |
|----------------|-----------|------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Analog outpu | t | | | | | | |
| O | 0Ymax | "0/1 mA" "0/2.5 mA" "0/5 mA" "0/10 mA" "0/20 mA | | | | | |
| Current | YminYmax | "0/1 mA" "0/2.5 mA" "0/5 mA" "0/10 mA" "0/20 mA | | | | | |
| Veltere | 0Ymax | "0/1 V" "0/5 V" "0/10 V" | | | | | |
| Voltage | YminYmax | "1/5 V" "2/10 V" | | | | | |
| Accuracy | | 0.5 % | | | | | |
| Auxiliary pow | er supply | | | | | | |
| Alternating cu | rrent | """100/√3 VAC"" ""110/√3 VAC"" ""115/√3 VAC"" ""100 VAC"" ""110 VAC"" ""115 VAC"" ""127 VAC"" ""220 VAC"" ""240 VAC""" | | | | | |
| Direct current | | "24 VDC" "48 VDC" "110 VDC" "125 VDC" | | | | | |
| Casing protect | ction | | | | | | |
| Fixed | | IP20 | | | | | |
| Plug-in | | IP20 | | | | | |
| | | | | | | | |

* Parameters to indicate when ordering

| | Model | Casing | Measurement range | Analog output | Auxiliary power supply | Ingress protection | Tropicalization |
|---------|----------|--------|-------------------|---------------|------------------------|-----------------------|-----------------|
| × | | | | | | | |
| Example | UCR1420B | Fixed | 0150Vdc | 420 mA | 48Vdc | IP 20 | \checkmark |





Normeurope analog panel meters

Round / square barrel For viewing an instantaneous and variable quantity.



Sockets

For plug-in casings



Mounting on DIN rail Plate-mounting or plug-in



Pyrocontrole Catalog

TEMPERATURE

| Model | | RCL1220B | | | | | | | |
|------------------------|---------------|-----------------------------------------------------------------------------------------------------------------|---------------------|--|--|--|--|--|--|
| Measurement | | | | | | | | | |
| Temperature | | | | | | | | | |
| Transfer curve | | | | | | | | | |
| Linear | | | | | | | | | |
| Casing | | | | | | | | | |
| Fixed | | 0 | .7 kg | | | | | | |
| Plug-in | | 0 | .7 kg | | | | | | |
| Measurement in | nput | | | | | | | | |
| Туре | | Platinum | Copper | | | | | | |
| Thermocouple b | reak safety | Max output | t or Min output | | | | | | |
| Mounting | | 2, 3 c | or 4 wires | | | | | | |
| Measurement ra | nge Xmin Xmax | 0 500°C | 0 200°C | | | | | | |
| Current in probe |) | 2 mA | 3 mA | | | | | | |
| Line resistance | | 0–2 Ω , on request, up to 10 Ω for pt100 ≥ 100°C | | | | | | | |
| Analog output | | | | | | | | | |
| Current | 0Ymax | "0/1 mA" "0/2.5 mA" "0/5 mA" "0/10 mA" "0/20 mA | | | | | | | |
| Current | YminYmax | "1/5 mA" "2/1 | 0 mA" "4/20 mA" | | | | | | |
| Voltage | 0Ymax | "0/1 V" "0/5 V" "0/10 V" | | | | | | | |
| voitage | YminYmax | "1/5 V | " "2/10 V" | | | | | | |
| Accuracy | | 0 | 0.5 % | | | | | | |
| Auxiliary power | supply | | | | | | | | |
| Alternating current | | "100/√3 VAC" "110/√3 VAC" "115/√3 VAC" "100 VAC" "110 VAC" "115 VAC" "127 VAC" "220 VAC" "230 VAC" "240 VAC" | | | | | | | |
| Direct current | | "24 VDC" "48 VDC" | "110 VDC" "125 VDC" | | | | | | |
| Casing protecti | ion | | | | | | | | |
| Fixed | | I | P20 | | | | | | |
| Plug-in | | I | IP20 | | | | | | |

| | Model | Casing | Sensor type | Safety | Mounting | Line resistance | Analog output | Auxiliary power supply | Ingress protection | Tropicalization |
|---------|----------|--------|----------------|------------|----------|-----------------|---------------|------------------------|-----------------------|-----------------|
| | | | | | | | | | | |
| Example | RCL1220B | Fixed | Plate | Max output | 3 wires | 2Ω | 420 mA | 48Vdc | IP 20 | \checkmark |



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