

UE-MU-APAQ-L double wire temperature transmitter for top hat rail mounting, DIN 50 022, 35mm

UE-MU-APAQ-LR is an analog double wire temperature transmitter with selectable temperature measuring range for PT100 , DIN EN 60 751. It delivers a temperature linear output signal 4...20mA

UE-MU-APAQ-LR is an analog double wire temperature transmitter with selectable temperature measuring range for 5 different thermoelements, DIN EN 60 584 and DIN43710. It delivers a linear voltage output signal 4...20mA

Features:

- **Selectable Measuring range**
Measuring range: 50°C units and $\pm 10\%$ span adjustable
- **Range adjustment**
Adjustment is realized by solder pads and potentiometer
- **Safety**
Precise sensor break monitoring with selectable function, min. and max.

Adjustment range: UE-MU-APAQ-LR

Zero point adjustment: -50... +50°C

Span: 50°C 100°C 150°C 200°C 300°C 400°C 500°C

Adjustment range: UE-MU-APAQ-LC

Zero point adjustment: $\pm 10\%$ span adjustable

Span: 10...50mV type "J": 186...870°C
type "L": 183... 855°C
type "T": 213... 400°C
type "K": 246... 1232°C
type "N": 319... >1300°C

UE-MU-APAQ-L double wire temperature transmitter

Input	APAQ-LR	APAQ-LC
PT100 (=0,00385) triple conductor	adjustable for a specific range -50...+550°C	
Thermoelements		adjustable types: J, L, T, K and N measuring range: -5...55mV
sensor current	approx. 1mA	
input impedance		>5M
max. resistance sensor supply pipe	15/line	(entire loop)
Monitoring		
sensor break monitoring adjustable	max. ca. 25mA, min. approx. 3mA	max. ca. 25mA, min. approx. 3mA
Adjustment		
zero point	-50...+50°C	±10% of the span
span, adjustable	50...500°C	10...50mV
span, fine adjustment	±10%	±10%
Output		
current	4...20mA	4...20mA
linearity	temperature linear	voltage linear
current limitation	approx. 25mA	approx. 25mA
permissible strain	700 @ 24VDC, 25mA	700 @ 24VDC, 25mA
Temperature range		
storage temperature	-20...+70°C	-20...+70°C
working temperature	-20...+70°C	-20...+70°C
General data		
response time	0,2s	0,2s
rel. Humidity, no strain	0...95%	0...95%
Supply (protected against polarity reversal)		
supply voltage	6,5...32VDC	6,5...32VDC
max. waviness	4ss @ 50/60 Hz	4ss @ 50/60 Hz
Accuracy		
linearity	±0,1% of the span	±0,1% of the span
calibration	±0,1% of the span	±0,1% of the span
comparison location		± 1°C
impact temperature	±0,6% of the span / 25°C	±0,6% of the span / 25°C
temperature impact comparison location		± 1,25°C / 25°C
impact sensor conduction	±0,005 °C /	0,4V /
RFI-impact (0,15...1000MHz, 10 V or V/m)	±0,2% of the span (typical)	±0,2% of the span (typical)
impact supply voltage	±0,02% of the span / V	±0,02% of the span / V
impact waviness 50/60 Hz, 4 Vss	±0,05% of the span	±0,05% of the span
Long-time stability	±0,1% of the span / year	±0,1% of the span / year
Housing		
inflammability material (UL)	PC + glass fibre/VO	PC + glass fibre/VO
mounting	rail DIN 50022, 35mm	rail DIN 50022, 35mm
connection	,5mm ³ , A WG 16	mm ³ , A WG 16
weight	40g	40g
degree of protection, housing with cover, clamps	IP20/IP20	IP20/IP20

