



WELDING TECHNOLOGIES

ARO Controls AR01 NG

The AR01 NG (New Generation) Welding Controller has been developed to meet the industry's demand for resistance welding solutions.

Economical, reliable, quick to install and easy to handle - this range of standard controllers covers applications up to 56kVA under 400V 50/60Hz and up to 32kVA under 230V 50/60Hz.

Getting started rapidly - the AR01 NG is equipped with an ergonomic and intuitive interface panel that gives the user direct access to all basic features as well as to 9 pre-programmed operating programs. All welding parameters are saved without any battery in a "flash" memory for an unlimited period of time.


To guarantee an up-to-date and efficient management of 50/60Hz guns and machines, the welding controller integrates state-of-the-art microprocessors. It also ensures perfect synchronization and control of the thyristors.

The new AR01 NG Welding Controller is easy to incorporate into a welding cabinet, thus allowing to control higher power capacities.

To provide for optimum process reliability, the AR01 NG is able to **measure and control the welding current** up to 50kA (optional feature).



References :

VIEW	SUPPLY VOLTAGE	POWER	CONNECTORS	CURRENT MEASUREMENT*	DESCRIPTION	REFERENCE
 400 x 300 x 200 mm	400V	3 kVA	WeidMüller	no	With 15A circuit breaker and 30mA differential	ZT10102032D
				no	With 63A circuit breaker	ZT10402022P
		32 kVA	Souriau	no	With 63A circuit breaker and 30mA differential	ZT10402022DP
				yes	With 63A circuit breaker	ZT10402022MP
			Amphénol	no	With 63A circuit breaker and 30mA differential	ZT10402022DMP
				yes	With 63A circuit breaker	ZT10402022N
		56 kVA	Souriau	no	With 100A circuit breaker	ZT10602022P
				yes	With 100A circuit breaker and 30mA differential	ZT10602022DP
			Amphénol	no	With 100A circuit breaker	ZT10602022MP
				yes	With 100A circuit breaker and 30mA differential	ZT10602022DMP
				no	With 100A circuit breaker	ZT10602022N
				yes	With 100A circuit breaker and 30mA differential	ZT10602022DN
	230V	3 kVA	WeidMüller	no	With 15A circuit breaker and 30mA differential	ZT10102031D
				no	With 63A circuit breaker	ZT10202021P
		18 kVA	Souriau	no	With 63A circuit breaker and 30mA differential	ZT10202021DP
				yes	With 63A circuit breaker	ZT10202021MP
			Amphénol	no	With 63A circuit breaker and 30mA differential	ZT10202021DMP
				yes	With 63A circuit breaker	ZT10202021N
		32 kVA	Souriau	no	With 63A circuit breaker and 30mA differential	ZT10202021DN
				yes	With 63A circuit breaker	ZT10202021MN
			Amphénol	no	With 63A circuit breaker and 30mA differential	ZT10202021DMN
				yes	With 100A circuit breaker	ZT10402021P
				no	With 100A circuit breaker and 30mA differential	ZT10402021DP
				yes	With 100A circuit breaker	ZT10402021MP
32 kVA	Souriau	no	With 100A circuit breaker and 30mA differential	ZT10402021DMP		
		yes	With 100A circuit breaker	ZT10402021N		
	Amphénol	no	With 100A circuit breaker and 30mA differential	ZT10402021DN		
		yes	With 100A circuit breaker	ZT10402021MN		

*The current control models are delivered with a calibration certificate.

Note: The current measurement is performed on the primary side using a measuring coil (internal diameter 20mm). The secondary current displayed (max. 50kA) is calculated based on the transformation ratio of the welding transformer.



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Options :

DESCRIPTION	REFERENCE
1 manual gun 1 pressure fluid panel comprising: - 1 pressure regulator filter with manometer - 1 water filter - 2 shut-off valves	HCO1500F1

AR01 NG Characteristics:

Sequence Type	AR.01 NG
Number of programs	9
Squeeze	0 to 99 periods
Welding	0 to 99 periods
Hold	1 to 99 periods
General interval	0 to 99 periods
Upslope	0 to 40 periods
Pulse	1 to 20
Pulse interval	0 to 99 periods
Current command in % without current control	10 to 99%
Current command in % with current control	Factory option
Automatic or fixed cosinus φ (configurable)	Fixed 30 to 99
Spot counter with reset	Factory option
Single spot welding	◆
Series spot welding	◆
Electrovalves control	1
Clamping without welding	◆
With or without welding current	◆
EV supply	24VAC/24VDC configurable



Note: The upslope and pulse features are also available for welding operations with specific thermal treatment.

For the AR01 NG Controllers that come with the "current measurement and control" option, please note that regular checks and calibrations are essential to guarantee quality and reliability of the data obtained.

ROBOTIC WELDING
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STATIONARY WELDING
MOBILE WELDING
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