



QPP 2-CIRCUIT CURRENT PULSE GENERATORS



Product characteristics

The devices of the QPP series enable a cost-efficient and process-safe magnetic particle inspection of magnetisable materials for cracks, voids and pores while reducing consumables.

Procedure

QPP are 2-circuit high-current pulse devices that can alternately generate AC or DC high-current pulses on 2 separate circuits. Thus, cracks with different orientations can be detected "simultaneously".

Product use

Surface crack testing of ferritic steel components, e.g. welded joints, castings and forgings, ground, cold-formed, hot-formed, heat-treated or hardened components.

Important note: The suitability of the QPP units must be checked in advance in each individual case! Arrange a demonstration appointment with us.

Technical changes reserved!



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Advantages

- Clear indication through direct current pulses
- Reduced false indications
- Simultaneous testing of longitudinal as well as transverse defects by 2 independent current sources for magnetisation (e.g. by direct current, coils or combinations)
- Fast and efficient testing of large components and surfaces
- Joint testing of several test parts
- Magnetisation possible by means of direct current, coils or combinations
- Mobile crack detectors also for confined spaces
- No heating of the components
- No remanence problems after testing
- Permanent testing of the contact quality to avoid contact fires
- Combined current and field strength measurement for both circuits, the maximum values reached are displayed as a curve and as an amount.
- Low energy consumption
- Demagnetisation

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Tech. specifications acc. to EN ISO 9934-3		QPP3000	QPP6000
Pulse short-circuit current I_K	A	AC/DC 1800	AC/DC 25000
Rated voltage $U_{max (SELV)}$	A	+	+
Pulse frequency at I_{max} (depending on rated current)	Hz	> 3,3	> 3,3
Max. Rated pulse current I_{max} (load-dependent)		4000 - I_K	5000 - I_K
Nominal pulse current adjustable 0- I_{max}	Step s	60	60
Operating data			
Mains connection	VAC	3 x 400	3 x 400
Frequency	Hz	50 - 60	50 - 60
Power consumption	kVA	4	8
Duty cycle ED for intermittent continuous operation	%	100	100

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Prüfspannung zur Kontaktprüfung	V	< 12	< 12
Start / Stopp		Taster	Taster
Selbsttest		+	+
Steckdose 230 VAC		+	+
Abmessungen			
Länge x Breite x Höhe (ohne Griff)	mm	500 x 600 x 600	500 x 600 x 600
Gewicht ohne Kabel	Kg	ca. 80	ca. 80
Optionen			
Feldstärkemessung mit Anzeige des Spitzenwertes und Zeitverlaufs		0 - 280 A/cm	0 - 280 A/cm
Remanenzmessung		+	+
Funkfernbedienung		+	+
PC-Schnittstelle + Software zur Dokumentation der Prüfung		+	+

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