



Equipment

Product information
QPP 2-Circuit current puls generator



Innovation in Non-Destructive Testing

QPP 2-Circuit current pulse generator

The devices of the QPP series allow for a cost effective and fail-safe magnetic particle test for surface defects (such as cracks, blowholes, or pores) of magnetizable material, reducing the required amount of expandable material at the same time.

Procedure: The test method uses two current impulse channels, which alternately produce high-current pulses on separate outputs. Thus, two orientations of surface defects can be tested simultaneously.

Application: The area of application covers inspection for surface defects on ferromagnetic steel parts, e.g. welded joints, cast and forged items, grinded surfaces, cold- and hot-formed parts, hardened parts, and more.

Important note: *The suitability of QPP equipments has to be tested in every individual case in advance. Please contact us to arrange a personal appointment for demonstration.*

Benefits:

- Clear indication using DC current pulses, alternatively using AC pulses
- Reduction of false positives
- Simultaneous inspection for longitudinal and crosswise defects by using two independent current sources for magnetization (using current flow through the probe or coils, or a combination of both)
- Fast and efficient inspection of large structures and surfaces
- Simultaneous inspection of multiple parts
- Magnetization by current flow through the part or by use of coils, or by a combination of both methods
- Mobile inspection is possible even under cramped conditions
- Negligible generation of heat in the part under test
- No problems with residual magnetism after test
- Permanent surveillance of contact quality to avoid contact burn
- Combined measuring of test current and magnetic field for both output channels.
- Low energy consumption
- Demagnetization



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NDT-materials

TO SEE MORE!

| Technical data Acc. to EN ISO 9934-3 | | QPP1200 | QPP2400 | QPP3000 | QPP6000 |
|--|-------|-----------------|-----------------|-----------------|-----------------|
| Pulse short circuit current I_k | A | AC/ DC 1000 | AC/DC 13000 | AC/DC 18000 | AC/DC 25000 |
| Nominal voltage U_{max} (SELV) | A | + | + | + | + |
| Pulse frequency at I_{max} (depending on nominal current) | Hz | > 1,3 | > 1,3 | > 3,3 | > 3,3 |
| Max. Pulse nominal current I_{max} (loadcontrolled) | | 2000 - I_k | 3000 - I_k | 4000 - I_k | 5000 - I_k |
| Pulse nominal current adjustable 0- I_{max} | Steps | 60 | 60 | 60 | 60 |
| Operational data | | | | | |
| Mains supply | VAC | 95 – 265 | 95 - 265 | 3 x 400 | 3 x 400 |
| Frequency | Hz | 0 – 60 | 0 – 60 | 50 - 60 | 50 - 60 |
| Power consumption | kVA | 1,5 | 3 | 4 | 8 |
| Duty cycle ED at intermittennd continuous duty | % | 100 | 100 | 100 | 100 |
| Testing voltage for contact testing | V | < 12 | < 12 | < 12 | < 12 |
| Start/Stop | | key button | key button | key button | key button |
| Self test | | + | + | + | + |
| Socket | | + | + | + | + |
| Measurements | | | | | |
| Length x width x height without handle | mm | 380 x 300 x 400 | 420 x 300 x 400 | 500 x 600 x 600 | 500 x 600 x 600 |
| Weight without cable | kg | ca. 23 | ca. 23 | ca. 80 | ca. 80 |
| Options | | | | | |
| Field strength measurement with indication of peak value and variation in time | | 0-280 A/cm | 0-280 A/cm | 0-280 A/cm | 0-280 A/cm |
| Remanence measurement | | + | + | + | + |
| Radio remote control | | + | + | + | + |
| PC interface + software for documentation of testing | | + | + | + | + |



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QPP 1200 / QPP 2400



QPP 3000 / QP 6000



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