

P2K Smart

Portable Crack Detection Units

P2K Smart Portable power packs are designed as per latest NDT MPI technical standard for AC and HWDC current magnetization and are suitable for magnetizing parts either with Prod, Contact Clamps and Cable Wrap or any other suitable type of Magnetization Method

P2K Smart is ideal for use in harsh conditions where the highest reliability is essential

The P2K Smart range consists of:

- Test currents up to 2,000 Amps RMS AC
- Test currents up to 2000 Amps AVG HWDC Classification

Benefits

- Find surface defects with AC current, switch cable connection to half wave DC (HWDC) for near-surface flaws
- Locate defects in any direction using prods, central conductor, coil (wrap part with 3-5 turns of cable)
- Infinitely variable current control

Features:

- Comes with a Siemens PLC model featuring a fixed duty cycle for steady current control, plus an optional current flow detection system for safer testing
- The digital ammeter can hold a reading until the next cycle, so you never miss a value
- Easy-to-see selection mechanism with built-in lights for AC, HWDC, Pulse, and Prod, clearly showing the current mode
- Switching between AC and DC is simple with quick mag cable connectors
- Start magnetizing simply by pressing the foot or hand switch



Specification Compliance

- ASME BPVC: V Article VII
- ASTM E1444/E1444M-22a
- ASTM E3024/E3024M-22a
- ASTM E709
- ISO 9934-2
- Parts are automatically demagnetized in AC mode, with current gradually dropping from maximum to zero
- Designed for better electrical and thermal safety, reliable performance, and hassle-free maintenance

PRODUCT FEATURES

Part number	F04151
Effective AC*	2000 A
Effective HWDC*	2000 A
Open circuit voltage max.	10V
Control voltage	24 V DC and 15 V AC
Mains connection	2 Lines of 3 Phase 415 V AC
Frequency	50 Hz
Recommended quantity and length of high current cable**	2 x 5 m
High current cable cross section	120 mm ²
Constant current control	yes
Current indication	Digital
Length x width x height	520 x 405 x 350 mm
Weight without current cables	40 kgs

MAGNAFLUX,
DIVISION OF ITW INDIA PRIVATE LIMITED,
Plot No: 51,52, 207 & 208, Phase – 2,
IDA, TSIC, Pashamylaram, Medak Dist.-502307,
Telangana State, India

Tel: +91 8455 224710 Fax: +91 8455 224709
Email: magnafluxinfo@magnafluxindia.com
www.magnaflux.in



F/MKTG/217/0 Rev 08/2025