

# IP 6.2



IP6.2 Coupling Unit (top) with a DEC1A decoupling unit (bottom)

To be used for surge tests requiring coupling on multiple wires.

## ONE SOLUTION

for

- IEC 1000-4-5**
- EN61000-4-5**
- FCC part 68**
- FTZ 12 TR1**
- ITU (CCITT) K20, K21**

the relevant part of

**EN 50082-1, -2**

all EN product standards and many other applications.

## FEATURES

- 4 wire integrated unit
- coupling CWG surges
- coupling 10/700 surges
- test circuit impedance maintained at 40 ohms
- resistor, capacitor and gas arrester coupling
- manual operation
- can be used with any surge generator
- impulse power 6.6kV
- supplied to ISO 9001

## APPLICATION

IP6.2 surge coupler is used to couple the 1.2/50  $\mu$ s, 8/20  $\mu$ s, 10/160 $\mu$ s, 10/560 $\mu$ s **and** 10/700  $\mu$ s surge impulses on data, signal and telecom lines.

Coupling is effected via gas arrestors, capacitors and resistors. The three coupling methods can be selected, depending on the signals to be transmitted.

IP6.2 is used either on it's own or with a decoupling unit such as the Haefely DEC 1A or DEC 3A.

**HAEFELY** EMC  
TECHNOLOGY

## COST EFFETIVE

In its standard form, the IP6.2 can be used for testing to IEC, FCC, FTZ and ITU (CCITT) standards.

IP6.2 is able to cover so many standards thanks to a thorough understanding of telecoms requirements. Our commitment is your guarantee. This concept enables different test methods to be implemented at very little cost in time or money, thus protecting the financial investment and enabling customers to keep up with changing standards and test requirements.

Typical standards which can be addressed are:

- IEC 61000-4-5 (both impulse types)
- ITU (CCITT) K20, K21
- FCC part 68

## HIGH PERFORMANCE

IP6.2 is designed to a high technical specification for product quality, flexibility and personnel safety.

The standard unit includes three coupling possibilities

- resistors
- capacitors
- gas arrestors

IEC 61000-4-5 describes testing of up to 4 data and telecom cables. The test system must always have a 40 ohm impedance. An important feature of IP6.2 is it's ability to maintain this impedance, for telecoms testing, for both the 10/700 **and** CWG impulses.

IP6.2 requires no external power supplies and can be operated with any surge generator up to 6.6kV.

## EASY OPERATION

IP6.2 is a versatile unit for multiple line coupling.

Front panel of the IP6.2 is a graphical representation of the coupling circuits making configuration to the different surge test standards fast and easy.

- 40Ω / 25 to 100Ω
- 40Ω / 0.5μF
- 40Ω / 0.1μF

Coupling paths are selected using high voltage safety plugs on the instrument front panel.

Together with the Haefely EMC decoupling units:

- DEC1A (for analogue Telecom)
- DEC3A (for I/O datalines)

IP6.2 provides a cost effective straightforward solution to increasingly complex test standards.

## TECHNICAL SPECIFICATION

Surge Test Voltage	0.5 - 7.6 kV	EUT voltage	500V (capacitor) 66V (arrestor)
Coupling resistors	1x25, 2x50, 3x75, 4x100Ω	EUT connectors	4 x 4mm banana plugs + ground
Coupling capacitors	0.5μF / 0.1μF	Surge connectors	High and Common
Coupling gas arrestors	90V	Weight	10 Kg

## ORDERING INFORMATION

IP6.2 coupling unit	249 518
DEC1A decoupling unit (analogue Telecom)	249 523
DEC3A decoupling unit (I/O datalines)	249 524



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