

1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as \pm (% readings + no. of digits*resolution) at 23°C \pm 5°C, <80%RH

Voltage (RCD, LOOP, Phase sequence)

Range [V]	Resolution [V]	Accuracy
15 ÷ 460	1	$\pm(3.0\% \text{ rdg} + 2\text{dgt})$

Continuity test on protective and equalizing conductors

Range [Ω]	Resolution [Ω]	Accuracy (*)
0.01 ÷ 9.99	0.01	$\pm(5.0\% \text{ rdg} + 3\text{dgt})$
10.0 ÷ 99.9	0.1	
100 ÷ 1999	1	$\pm(10.0\% \text{ rdg} + 5\text{dgt})$

(*) calibrate the cables to null their resistance

Test current: > 200mA DC for $R \leq 5\Omega$ (calibration included) ; Resolution for DC current : 1mA

Open-circuit voltage: $4V \leq V_0 \leq 12V$

Insulation resistance (DC voltage)

Test voltage[V]	Range [$M\Omega$]	Resolution [$M\Omega$]	Accuracy
50	0.01 ÷ 9.99	0.01	$\pm(2.0\% \text{ rdg} + 2\text{dgt})$
	10.0 ÷ 49.9	0.1	
	50.0 ÷ 99.9	0.1	$\pm(5.0\% \text{ rdg} + 2\text{dgt})$
100	0.01 ÷ 9.99	0.01	$\pm(2.0\% \text{ rdg} + 2\text{dgt})$
	10.0 ÷ 99.9	0.1	
	100.0 ÷ 199.9	0.1	$\pm(5.0\% \text{ rdg} + 2\text{dgt})$
250	0.01 ÷ 9.99	0.01	$\pm(2.0\% \text{ rdg} + 2\text{dgt})$
	10.0 ÷ 99.9	0.1	
	100 ÷ 499	1	$\pm(5.0\% \text{ rdg} + 2\text{dgt})$
500	0.01 ÷ 9.99	0.01	$\pm(2.0\% \text{ rdg} + 2\text{dgt})$
	10.0 ÷ 199.9	0.1	
	200 ÷ 499	1	$\pm(5.0\% \text{ rdg} + 2\text{dgt})$
	500 ÷ 999	1	
1000	0.01 ÷ 9.99	0.01	$\pm(2.0\% \text{ rdg} + 2\text{dgt})$
	10.0 ÷ 199.9	0.1	
	200 ÷ 999	1	$\pm(5.0\% \text{ rdg} + 2\text{dgt})$
	1000 ÷ 1999	1	

Open-circuit voltage: nominal test voltage $-0\% +10\%$

Short circuit current: <6.0mA at 500V test voltage

Nominal test current: >1mA if load= $1k\Omega * V_{nom}$ ($V_{nom}=50V, 100V, 250V, 500V, 1000V$)

Safety protection: the display shows an error message for input voltage >10V

Z Line (Line-Line, Line-Neutral, Line-PE)

Range [Ω]	Resolution [Ω]	Accuracy
0.00 ÷ 199.9 m Ω (*)	0.1 m Ω (*)	$\pm(5.0\% \text{ rdg} + 1\text{m}\Omega)$ (*)
200 ÷ 1999 m Ω (*)	1 m Ω (*)	
0.01 ÷ 9.99 Ω	0.01 Ω	$\pm(5.0\% \text{ rdg} + 3\text{dgt})$
10.0 ÷ 199.9 Ω	0.1 Ω	

(*) By means of IMP57 optional accessory

Maximum test current: 5.81A (at 265V); 10.10A (at 457V)

Test voltage ranges: 100÷265V (Line-Neutral) / 100÷460V (Line-Line); 50/60Hz \pm 5%

Protection type: MCB (B, C, D, K), Fuse (gG, aM)

Insulation materials: PVC, Rubber butyl, EPR, XLPE

First fault current (IT systems)

Range (mA)	Resolution (mA)	Accuracy
0.1 ÷ 0.9	0.1	$\pm(5.0\% \text{ rdg} + 1\text{dgt})$
1 ÷ 999	1	$\pm(5.0\% \text{ rdg} + 3\text{dgt})$

Limit contact voltage (ULIM) : 25V, 50V



RCD test (Molded case type)

RCD type: AC (⌚), A/F (⌚), B/B+ (⌚) – General (G), Selective (S) and Delayed (⌚)
 Rated tripping currents (I_{ΔN}): 6mA, 10mA, 30mA, 100mA, 300mA, 500mA, 650mA, 1000mA
 Line-PE, Line-N voltage: 100V ±265V RCD type AC and A/F, 190V ±265V RCD type B/B+
 Frequency: 50/60Hz ± 5%

RCD tripping current (Molded case type – RCD General)

RCD type	I _{ΔN}	Range I _{ΔN} [mA]	Resolution [mA]	Accuracy I _{ΔN}
AC, A/F, B/B+	6mA, 10mA	(0.2 ÷ 1.1) I _{ΔN}	≤ 0.1 I _{ΔN}	- 0%, +10% I _{ΔN}
AC, A/F, B/B+	30mA ≤ I _{ΔN} ≤ 300mA			- 0%, +5% I _{ΔN}
AC, A/F	500mA ≤ I _{ΔN} ≤ 650mA			

RCD Molded type tripping time range [ms] (TT/TN system)

	x 1/2			x 1			x 2			x 5			AUTO			AUTO+			
	\	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚
6mA	AC	999	999	999	999	999	999	160	210	50	150	✓	✓	310			✓		
	A/F	999	999	999	999	999	999	160	210	50	150	✓	✓	310			✓		
	B/B+	999	999	999	999	999	999							310					
10mA	AC	999	999	999	999	999	999	160	210	50	150	✓	✓	310			✓		
	A/F	999	999	999	999	999	999	160	210	50	150	✓	✓	310			✓		
	B/B+	999	999	999	999	999	999							310					
30mA	AC	999	999	999	999	999	999	160	210	50	150	✓	✓	310			✓		
	A/F	999	999	999	999	999	999	160	210	50	150	✓	✓	310			✓		
	B/B+	999	999	999	999	999	999							310					
100mA	AC	999	999	999	999	999	999	160	210	50	150	✓	✓	310					
	A/F	999	999	999	999	999	999	160	210	50	150	✓	✓	310					
	B/B+	999	999	999	999	999	999							310					
300mA	AC	999	999	999	999	999	999	160	210	50	150	✓	✓	310					
	A/F	999	999	999	999	999	999	160	210	50	150	✓	✓	310					
	B/B+	999	999	999	999	999	999							310					
500mA 650mA	AC	999	999	999	999	999	999	160	210	50	150	✓	✓	310					
	A/F	999	999	999	999	999	999	160	210					310					
	B/B+																		
1000mA	AC	999	999	999	999	999	999	160	210										
	A/F	999	999	999	999	999	999												
	B/B+																		

Resolution: 1ms, Accuracy: ±(2.0%rdg + 2dgt)

RCD Molded type tripping time range [ms] (IT system) (*)

	x 1/2			x 1			x 2			x 5			AUTO			AUTO+			
	\	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚
6mA	AC	999	999	999	999	999	999	160	210	50	150	✓	✓	310			✓		
10mA	A/F	999	999	999	999	999	999	160	210	50	150	✓	✓	310			✓		
30mA	B/B+	999	999		999	999								310			✓		
100mA 300mA	AC	999	999	999	999	999	999	160	210	50	150	✓	✓	310					
	A/F	999	999	999	999	999	999	160	210	50	150	✓	✓	310					
	B/B+	999	999		999	999													
500mA 650mA	AC	999	999	999	999	999	999	160	210	50	150	✓							
	A/F	999	999	999	999	999	999	160	210			✓							
	B/B+																		
1000mA	AC	999	999		999	999		160	210										
	A/F	999	999		999	999													
	B/B+																		

Resolution: 1ms, Accuracy: ±(2.0%rdg + 2dgt)

(*) Selection RCD type A/F and type B/B+ available only for Norway country



Test on RCD of type DD

Type of RCD:	Type DD (according to IEC62955 standard), General (G)
Trip-out current (I _{ΔN})::	6mA
Voltage range F-PE, F-N:	100V ÷265V
Frequency:	50/60Hz ± 5%

RCD tripping current (DD type – only for RCD General)

RCD type	I _{ΔN}	Range I _{ΔN} (mA)	Resolution (mA)	Accuracy I _{ΔN}
DD	6mA	(0.2 ÷ 1.1) I _{ΔN}	≤ 0.1 I _{ΔN}	- 0%, +10%I _{ΔN}

RCD trip-out time (DD type – only for RCD General)

RCD type	I _{ΔN}	Range (ms)	Resolution (ms)	Accuracy I _{ΔN}
DD	6mA	10000	1	±(2%rdg + 2dgt)


Test on earth leakage delay tester RCDs (with RCDX10 optional accessory)

RCD type:	AC (⌚), A/F (⌚), B/B+ (⌚) – General (G), Selective (S) and Delayed (⌚)
Rated tripping currents (I _{ΔN})::	0.3A ÷ 10A (type AC, A/F) ; 0.3A ÷ 3.0A (type B/B+)
Line-PE, Line-N voltage:	100V ÷265V RCD type AC and A/F, 190V ÷265V RCD type B/B+
Frequency:	50/60Hz ± 5%

Earth leakage delay tester RCDs tripping current (RCD General)


RCD type	I _{ΔN}	Range I _{ΔN} [mA]	Resolution [mA]	Accuracy I _{ΔN}
AC, A/F, B/B+	300mA ≤I _{ΔN} ≤1A	(0.3 ÷ 1.1) I _{ΔN}	≤ 0.1I _{ΔN}	- 0%, +5%I _{ΔN}
AC, A/F	1.1A ≤I _{ΔN} ≤10A			

Earth leakage delay tester RCDs trip out time range [ms] (TT/TN system)

	\	x 1/2			x 1			x 2			x 5			AUTO					
		G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚
0.3A ÷ 1.0A	AC	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	A/F	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	B/B+	999	999	999	999	999	999										310		
1.1A ÷ 3.0A	AC	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	A/F	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	B/B+	999	999	999	999	999	999												
3.1A ÷ 6.5A	AC	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	A/F	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	B/B+																		
6.6A ÷ 10.0A	AC	999	999	999	999	999	999	200	250										
	A/F	999	999	999	999	999	999												
	B/B+																		

Resolution: 1ms, Accuracy: ±(2.0%rdg + 2dgt)

Earth leakage delay tester RCDs trip out time range [ms] (IT system) (*)

	\	x 1/2			x 1			x 2			x 5			AUTO					
		G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚
0.3A ÷ 3.0A	AC	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	A/F	999	999	999	999	999	999	200	250		50	150		✓	✓				
	B/B+																		
3.1A ÷ 6.5A	AC	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	A/F	999	999	999	999	999	999	200	250		50	150		✓	✓				
	B/B+																		
6.6A ÷ 10.0A	AC	999	999	999	999	999	999	200	250										
	A/F	999	999	999	999	999	999	200	250										
	B/B+																		

Resolution: 1ms, Accuracy: ±(2.0%rdg + 2dgt)

(*) Selection RCD type A/F and type B/B+ available only for Norway country



NoTripTest – Non-trip earth loop impedance

Test voltage: 100÷265V (Line-PE), 50/60Hz ± 5%

NoTripTest – Systems with Neutral wire

Range [Ω]	Resolution [Ω]	Accuracy (*)
0.01 ÷ 9.99	0.01	±(5% reading + N/10)
10.0 ÷ 199.9	0.1	±(5% reading + N)
200 ÷ 1999	1	±(5% reading + 3N)

 (*) If $I_{\Delta N} < 30\text{mA}$, test current = $I_{\Delta N}/2$ and $N[\Omega]=30/I_{\Delta N}$; if $I_{\Delta N} \geq 30\text{mA}$, test current $< 15\text{mA}$ and $N=1\Omega$

NoTripTest – Systems without Neutral wire

Range [Ω]	Resolution [Ω]	Accuracy (*)
1 ÷ 1999	1	-0%, +(5.0% lettura +N)

 (*) if $I_{\Delta N} < 30\text{mA}$, test current = $I_{\Delta N}/2$ and $N[\Omega]=(10 \times 30)/I_{\Delta N}$ Ω; if $I_{\Delta N} \geq 30\text{mA}$, test current $I_{\Delta N}/2$ and $N[\Omega]=(3 \times 30)/I_{\Delta N}$

Contact voltage (RCD and NoTripTest)

Range [V]	Resolution [V]	Accuracy
0 ÷ Utlim	0.1	-0%, +(5.0% rdg + 3V)

Contact voltage (EARTH test – TT system)

Range [V]	Resolution [V]	Accuracy
0 ÷ 99.9	0.1	-0%, +(5.0% rdg + 3V)

Contact voltage (EARTH test – TN system)

Range [V]	Resolution [V]	Accuracy
0 ÷ 99.9	0.1	-0%, +(5.0% rdg + 3V)
100 ÷ 999	1	

Ground resistance with 3-wire method

Range [Ω]	Resolution [Ω]	Accuracy (*)
0.01 ÷ 9.99	0.01	±(5.0% rdg + 3dgt)
10.0 ÷ 99.9	0.1	
100 ÷ 999	1	
1.00k ÷ 49.99k	0.01k	

Test current: <10mA – 77.5Hz, Open-circuit voltage: < 20Vrms

 (*) Add 5% to the accuracy if the probe resistances (R_s or R_h) > 100 x R_{meas}

Soil resistivity with 4-wire Wenner method

Range [Ωm]	Resolution [Ωm]	Accuracy (*)
0.06 ÷ 9.99	0.01	±(5.0% rdg + 3dgt)
10.0 ÷ 99.9	0.1	
100 ÷ 999	1	
1.00k ÷ 9.99k	0.01k	
10.0k ÷ 99.9k	0.1k	
100k ÷ 999k	1k	
1.00M ÷ 3.14M	0.01M	

 (*) with distance $d=10\text{m}$, Distance "d" range: 1 ÷ 10m

Test current: <10mA – 77.5Hz, Open-circuit voltage: < 20Vrms

Phase sequence rotation with 1-wire method

Voltage range P-N, P-PE[V]	Frequency range
100 ÷ 265	50Hz/60Hz ± 5%

Measurement is only carried out by direct contact with metal live parts (not on insulation sheath)



Voltage drop on main power lines ($\Delta V\%$)

Range (%)	Resolution (%)	Accuracy
0 ÷ 100	0.1	$\pm(10.0\% \text{ rdg} + 4\text{dgt})$

Leakage current (by HT96U optional clamp transducer)

Range [mA]	Resolution [mA]	Accuracy
0.5 ÷ 999.9	0.1	$\pm(5.0\% \text{ rdg} + 2\text{dgt})$

Environmental parameters (AUX function)

Parameter	Range	Resolution	Accuracy
Temperature [°C]	-20°C ÷ 80°C	0.1 °C	$\pm(2.0\% \text{ rdg} + 2\text{dgt})$
Temperature [°F]	-4°F ÷ 176°F	0.1 °F	
Relative humidity [%HR]	0 ÷ 100%HR	0.1% UR	
DC output voltage	0.1mV ÷ 1.0V	0.1mV	
Illuminance [Lux]	0.001Lux ÷ 20.00 Lux (*)	0.001 ÷ 0.02 Lux	
	0.1 Lux ÷ 2000 Lux (*)	0.1 ÷ 2 Lux	
	1 Lux ÷ 20 kLux (*)	1 ÷ 20 Lux	

(*) Accuracy of HT53 lux probe is according to Class AA

Measurement of main parameters and harmonics (PQA)

AC TRMS Voltage

Range [V]	Resolution [V]	Accuracy
15.0 ÷ 459.9	0.1V	$\pm(1.0\% \text{ rdg} + 1\text{dgt})$

Allowed crest factor $\leq 1,5$; Frequency: 42.5 ÷ 69.0 Hz

Frequency

Range [Hz]	Resolution [Hz]	Accuracy
42.5 ÷ 69.0	0.01	$\pm(2.0\% \text{ rdg} + 2\text{dgt})$

Allowed voltage: 15.0 ÷ 459.9V; Allowed current: 5%FS clamp ÷ FS clamp

AC TRMS Current

FS clamp	Range [A]	Resolution [A]	Accuracy
$\leq 10A$	5% FS ÷ 9.99	0.01	1Ph: $\pm(1.0\% \text{ rdg} + 3 \text{ dgt})$ 3Ph: $\pm(2.0\% \text{ rdg} + 5 \text{ dgt})$
$10A \leq FS \leq 200$	5% FS ÷ 199.9	0.1	
$200A \leq FS \leq 3000$	5% FS ÷ 2999	1	

Range: 5 ÷ 999.9 mV; Values under 5mV are zeroed

Allowed crest factor ≤ 3 ; Frequency: 42.5 ÷ 69.0 Hz

Active power (@ 230V in 1Ph systems, 400V in 3Ph systems, $\cos\phi=1$, f=50.0Hz)

FS clamp	Range [kW]	Resolution [kW]	Accuracy
$\leq 10A$	0.000 ÷ 9.999	0.001	1Ph: $\pm(2.0\% \text{ rdg} + 5 \text{ dgt})$ 3Ph: $\pm(2.5\% \text{ rdg} + 8 \text{ dgt})$
$10A \leq FS \leq 200$	0.00 ÷ 999.99	0.01	
$200A \leq FS \leq 1000$	0.0 ÷ 999.9	0.1	
$1000A \leq FS \leq 3000$	0 ÷ 9999	1	

Reactive power (@ 230V in 1Ph systems, 400V in 3Ph systems, $\cos\phi=0$, f=50.0Hz)

FS clamp	Range [kVAr]	Resolution [kVAr]	Accuracy
$\leq 10A$	0.000 ÷ 9.999	0.001	1Ph: $\pm(2.0\% \text{ rdg} + 7 \text{ dgt})$ 3Ph: $\pm(3.0\% \text{ rdg} + 8 \text{ dgt})$
$10A \leq FS \leq 200$	0.00 ÷ 999.99	0.01	
$200A \leq FS \leq 1000$	0.0 ÷ 999.9	0.1	
$1000A \leq FS \leq 3000$	0 ÷ 9999	1	





Power factor (@ 230V in 1Ph systems, 400V in 3Ph systems, f=50.0Hz)

Range	Resolution	Accuracy
0.70c ÷ 1.00 ÷ 0.70i	0.01	$\pm(4.0\%rdg + 10dgt)$ if $I \leq 10\%FS$ $\pm(2.0\%rdg + 3dgt)$ if $I > 10\%FS$

cosφ (@ 230V in 1Ph systems, 400V in 3Ph systems, f=50.0Hz)

Range	Resolution	Accuracy
0.70c ÷ 1.00 ÷ 0.70i	0.01	$\pm(4.0\%rdg + 10dgt)$ if $I \leq 10\%FS$ $\pm(1.0\%rdg + 7dgt)$ if $I > 10\%FS$

Voltage harmonics (@ 230V in 1Ph systems, 400V in 3Ph systems, f=50.0Hz)

Range [%]	Resolution [%]	Order	Accuracy
0.1 ÷ 100.0	0.1	01 ÷ 25	$\pm(5.0\%rdg + 5dgt)$

Frequency of fundamental: 42.5 ÷ 69.0 Hz, DC accuracy not declared

Current harmonics (f=50Hz)

Range [%]	Resolution [%]	Order	Accuracy
0.1 ÷ 100.0	0.1	01 ÷ 9	$\pm(5.0\%rdg + 5dgt)$
		10 ÷ 17	$\pm(10.0\%rdg + 5dgt)$
		18 ÷ 25	$\pm(15.0\%rdg + 10dgt)$



2. GENERAL SPECIFICATIONS

DISPLAY AND MEMORY:

Features:	Touch screen, color graphic LCD, 320x240mm
Memory:	999 locations, 3 marker levels
Communication:	Optical-USB and built-in WiFi

POWER SUPPLY:

Batteries:	6 x 1.2V(rechargeable) type AA or 6 x 1.5V type AA
Battery life:	> 500 test for each functions
Auto Power OFF:	after 5 min of idleness (disabled)

MECHANICAL FEATURES:

Dimensions (L x W x H):	225 x 165 x 75mm
Weight (included batteries):	1.2kg

WORKING ENVIRONMENTAL CONDITIONS:

Reference temperature:	23°C ± 5°C
Working temperature:	0°C ÷ 40°C
Allowed relative humidity:	<80%RH
Storage temperature:	-10°C ÷ 60°C
Storage humidity:	<80%RH

TEST VERIFIES REFERENCE STANDARDS:

Continuity test with 200mA:	IEC/EN61557-4
Insulation resistance:	IEC/EN61557-2
Earth resistance:	IEC/EN61557-5
Fault loop impedance:	IEC/EN61557-3
RCD test:	IEC/EN61557-6
RCD-DD :	IEC62955
Multifunction:	IEC/EN61557-10
Prospective short circuit current:	EN60909-0
Earth resistance on TN systems:	EN61936-1 + EN50522
Test on EVSE devices:	IEC/EN61851-1, IEC/EN60364-7-722 (with EV-TEST100)

GENERAL REFERENCE STANDARDS:

Safety of measuring instruments:	IEC/EN61010-1, IEC/EN61010-031, IEC/EN61010-2-032
Product type standard:	IEC/EN61557-1
Technical documentation :	IEC/EN61187
Insulation:	double insulation
Pollution degree:	2
Encapsulation :	IP40
Overvoltage category:	CAT IV 300V~ (to ground), max 415V between inputs
Max height of use:	2000m

**This instrument satisfies the requirements of Low Voltage Directive 2014/35/EU (LVD)
of EMC Directive 2014/35/EU and Directive RED 2014/53/EU
This instrument satisfies the requirements of European Directive 2011/65/EU (RoHS) and 2012/19/EU
(WEEE)**



Diensten van EURO-INDEX

EURO-INDEX is fabrikant van BLAUWE LIJN en importeur/distributeur van diverse A-merken test- en meetinstrumenten. Wij leveren naast instrumenten ook de diensten om het gebruik hiervan in uw bedrijfsvoering te optimaliseren. Dit omvat uiteraard onderhoud, reparatie en kalibratie van instrumenten, maar ook kennisdeling via de EURO-INDEX Academy en verhuur van meetinstrumenten.

Geautoriseerd Service Centrum

EURO-INDEX is van de meeste merken in ons assortiment een Geautoriseerd Service Centrum. Dit betekent dat uw instrumenten worden behandeld door technici die zijn opgeleid door de fabrikant en beschikken over de juiste gereedschappen en software. Er worden uitsluitend originele onderdelen toegepast en de garantie van uw instrument blijft intact, net als de certificering (ATEX, EN50379, etc.).

Kalibratielaboratorium

Ons moderne service- en kalibratielaboratorium beschikt over een RvA accreditatie naar NEN-EN-ISO/IEC 17025. Deze accreditatie geldt voor grootheden, zoals gespecificeerd in de scope bij [accreditatienummer K105](#).



Kijk voor een overzicht van al onze diensten op euro-index.nl/diensten

KWS®

KWS® is een unieke kalibratieformule voor uw test- en meetinstrumenten met periodiek onderhoud en kalibratie tegen vaste, lage kosten.

Uw kalibratiecertificaten zijn digitaal beschikbaar via Mijn KWS (gratis webportaal en app) en door de QR-code te scannen van de kalibratiesticker op het instrument.

Verhuur van meetinstrumenten

Er zijn diverse situaties waarbij huren handig is:

- U heeft tijdelijk extra toestellen nodig.
- Uw eigen meetinstrument wordt onderhouden en/of gekalibreerd.
- U moet een eenmalige meting verrichten.

EURO-INDEX Academy

- Trainingen (individueel en klassikaal)
- Cursussen, infosessies en workshops
- Demonstratie- en instructievideo's
- Whitepapers



Servicebalie



Onderhoud, reparatie en kalibratie



Cursussen en workshops



Kalibratielaboratorium

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