



DXR™
2000C

ADWEL INTERNATIONAL LTD.

DIGITAL TRANSFORMER RATIO METER

Fast and convenient 3-phase ratio measurement

Model DXR-2000C

- *A light weight instrument for the precise determination of transformer ratios, polarity, and excitation current.*
- *An important tool for preventive maintenance, production testing and commissioning on all transformers.*
- *Built-in vector matrix for 3 phase testing - an important feature for diagnostic work.*
- *Accuracy $\pm 0.05\%$.*



Description

The Digital Transformer Ratiometer is designed to measure the no-load ratio of transformers at flux densities low enough that the impedance drop resulting from exciting current may be ignored. Accordingly, the voltage ratio obtained will be a precise measure of turns ratio.

The ultra precision potential measuring and ratio calculation provides a five digit readout with $\pm 0.05\%$ accuracy.

Polarity indicator signals relative phasing at all times, while the LCD digital ammeter warns of saturation or shorted turns.

The 3-phase vector switch pack incorporates a convenient push-button switching arrangement which enables the operator to hook up the test lead harness to all terminals of a three-phase transformer in one operation, then proceed to test all phases on every tap setting without interruption or change of leads on terminals. The operator has full control over the test to select or short phases.

Zig-zag transformers, or transformers without an accessible neutral connection, can also be tested with no external shorting.

DIGITAL TRANSFORMER RATIO METER

Features

- Measures ratio, polarity and excitation current
- Ratios 0.8 to 2000 in 4 ranges
- Direct digital readout of ratio and excitation current
- Built-in switching for 3 phase testing - an important feature for diagnostic work
- Electronic ratio calculation
- Portable in sturdy water proof case

Applications

- Potential Transformers
- Current Transformers
- Power Transformers
- Distribution Transformers
- Bushing-Current Transformers

Specifications

Power input	120V or 230V, 50/60 Hz	
Ranges	Ratio	0.8000 - 1.9999
		1.9999 - 19.999
		19.999 - 199.99
		199.99 - 1999.9
Metering Ratio	4 1/2 digit LED ratio calculating display	
Excitation Current	3 1/2 digit LCD, 0 - 199.9 mA	
Accuracy	Ratio	± 0.05% or 1 turn in 2,000
Resolution	Ratio	± 0.005% or 1 turn in 20,000
Temp Coeff.	10ppm/°C	
Housing	Sturdy self-storing fiberglass case with lid and carrying handle	
Dimensions	47 x 36 x 18cm (19 x 14 x 7")	
Weight	12kg (27lbs) including test leads	
Environmental	Operating temperature	0°C to +40°C
	Storage temperature	-20°C to +60°C
	Relative humidity	0-95% FH (non-condensing)
	EMC	EN61326
	Safety	EN61010-1
Approvals	CE	

*Specifications are subject to change without notice.

Optional Accessories

- Custom Lead Lengths
- Ratio Calibration Standard

Represented by:

DXR-2000C Kit Contents

- Test Leads - 50' (15m)
- Vinyl Zippered Carrying Pouch
- Operator's Manual



HEAD OFFICE

ADWEL INTERNATIONAL LTD.
50 Ironside Crescent, Unit 6
Toronto, Ontario,
Canada M1X 1G4
Telephone: +1 (416) 321-1988
Toll Free: (800) 463-9371
Fax: +1 (416) 321-1991
info@adwel.com

EUROPEAN OFFICE

ADWEL INTERNATIONAL LTD.
Park House, Greenhill Crescent
Watford Business Park
Watford, Herts WD18 8PH
United Kingdom
Telephone: +44-1923-254433
Fax: +44-1923-218278
info@adwel.co.uk

www.adwel.com