# Megger.

## CFL535G Advanced Dual Channel TDR



- Comprehensive Dual Channel capability with dual aspect display.
- AUTO set up mode for instant use.
- Ultra fast pulse for near end fault identification.
- Xpert guidance to potential fault.
- IP54 rating offers real life working.
- Designed for use on all metallic paired cables.

### DESCRIPTION

The Megger<sup>®</sup> CFL535G is a state of the art, dual channel, high resolution, compact Time Domain Reflectometer with a color screen for locating faults on paired metallic cables.

The CFL535G has a minimum resolution of 0.3 ft /0.1 m and a 60 kft/20 km maximum range depending on the velocity factor selected and the cable type.

Five output impedances are available (25, 50, 75, 100, 125 ohms) and an auto impedance matching feature. The velocity factor can be set between 0.2 and 0.99 to meet any cable test requirements.

#### **FEATURES AND BENEFITS**

The CFL535G has a large, high resolution, color, WVGA display with easy set up features. Directional control buttons, together with soft keys, provide intuitive and easy operation for the user.

An AUTO selection option ensures that the most effective parameters are selected depending on the range required, aiding rapid diagnosis of the TDR trace. The ability to manually override the auto function allows fine tuning to enable identification of hard to determine faults.

Dual trace and dual cursor capabilities allow full flexibility, giving the operator full control and instant indication of distance between two points.

A trace comparison feature also allows close examination between trace conditions. Extra high resolution together with a white-light backlight, user definable tones and color give the graphical display a vibrance, aiding the user in identifying key events on the trace.

#### Trace Storage

100 internal trace memories provide for the storage and recall of test results. The traces can be recalled to the display for analysis or compared with an active display to aid in fault location.

Alternatively the stored results can be downloaded to a computer, via the USB port, using the TraceXpert software and USB lead provided.

#### **Fault identification**

Megger's own built-in Xpert mode allows for speedy identification of faults. One press of the Xpert key automatically adjusts the range and gain, and positions the cursor to the first major event on the cable. Press the Xpert key again and the CFL535G will jump to the next detected disturbance.

For those who wish to maintain manual control, manual operation allows full override access to refine the response for easy fault identification.

#### TraceXpert PC software

The CFL535G comes complete with the Megger TraceXpert software which gives full control over downloading, reporting and uploading of saved trace results. Designed around a database and programmed for ease of use and simplicity, TraceXpert offers the ideal application for all your data processing requirements.

# Megger.

#### MODELS

The CFL535G is available in two models.

- CFL535G A fully featured high resolution TDR with backlit color display and powered by Li-ion rechargeable battery batteries. This model comes complete with 2 pairs of mini-clip Test Leads.
- The same as the CFL535G but with dual TDR2000/3P fused test leads replacing the mini-clip leads

### **ADDITIONAL FEATURES**

- Backlit graphics color LCD (800x480)
- Adjustable display contrast
- Resolution to 0.1 m
- Trace Xpert guide to potential fault location
- 100 trace on board memory
- USB connection to PC allowing upload and download of traces
- "TraceXpert" PC software analysis tool
- For use on Telecom TNV-3 circuit, or 150V CAT IV power circuits
- Power blocking filter built-in
- Environmental protection to IP54
- **•** Selectable output impedance (25, 50, 75,100 and 125  $\Omega$ )
- 2ns pulse for near end fault location
- AUTO option selecting gain and pulse for each range
- AUTO option matches output impedance to cable
- Display distance in metres or feet
- Li-ion rechargeable battery (12 hours typical life)

#### **SPECIFICATION**

Except where otherwise stated, this specification applies at an ambient temperature of 68 °F (20 °C).

#### Gonoral

General				
Ranges:	Up to 20000r	n with a minimum resolution of 0.1m		
Accuracy:	±1% of range	$e \pm 1$ pixel at 0.67VF		
	-	easurement accuracy is for the indicated		
		n only and is conditional on the velocity		
	factor being o	orrect.]		
Resolution:	1% of range			
Input Protection	This instrument complies with IEC61010-1 for			
	connection to live systems up to 150 V CAT IV.			
		nust be used if the voltage between the		
	terminals exce			
Output pulse:	•	s peak to peak into open circuit. Pulse		
Calar		nined by range and cable		
Gain:		ange with user selectable steps (in		
Velocity Factor:	Manual opera	5		
TX Null:	Variable from 0.2 to 0.99 in steps of 0.01 Automatic			
Power Down:	User programmable auto power off timer 1, 5, 10			
Tower Down.	mins or off			
Batteries:		eable battery with 12 hours typical life		
Safety:	This instrument complies with IEC61010-1 for			
		live systems up to 150 V CAT IV or		
		Fused leads must be used if the voltage		
		terminals exceeds 300 V. Compliant with		
		N61010-3, UN38.3 and EN62133		
EMC:	Complies with Electromagnetic Compatibility			
		(Light industrial) BS EN 61326-1, with a		
Mechanical:		formance of 'B' for all immunity tests		
Mechanical.	The instrument is designed for use indoors or outdoors and is rated to IP54.			
Case Dimensions:				
Case Dimensions.	nensions: 11.4 in. x 7.5 in. x 2.2 in (290 mm x 190 mm x 55 mm)			
Weight:	3.8 lbs (1.7kg)			
Case material:	ABS			
Connectors:	Four 4mm-safety terminals and two F connectors.			
		d push on adapters will fit the CFL535G		
Test Leads:	Bed-of-Nails lead set (CFL535G) or .5 meter fused			
	leads (TDR200	00/3P)		
Display: 800 x 480 pixel WVGA color graphics LCD, vi				
	in external environments. User selectable color			
	schemes			
Environmental				
		5 °F to 122 °F (-15 °C to 50 °C)		
Charging Temperature:		32 °F to 104 °F (0 °C to 40 °C)		
Storage Temperature:		-4 °F to 158 °F (-20 °C to 70 °C)		

## Megger.

ORDERING INFORMATION				
Item (Qty)	Cat. No.	ltem (Qty)	Cat. No.	
CFL535G Time Domain Reflectometer	1003-035	Optional accessories		
TDR2000/3P Time Domain Reflectometer		Terminal adaptor kit	1003-218	
(Includes dual fused, fitted test leads)	1003-341	Single pair mini-clamp test leads	6231-652	
Included Accessories		Single pair fused test leads	1002-015	
Download kit	1003-353	AC power lead	25970-002	
Carry case	1003-217	Replacement battery	1002-552	
Bed of nails test leads	6231-655			
Dual fused test leads (TDR2000/3P)	1002-136			
User guide CD	2003-074			
AC-DC charger	1003-352			

UΚ Archcliffe Road Dover CT17 9EN England T +44 (0) 1304 502101 F +44 (0) 1304 207342 UKsales@megger.com

#### UNITED STATES 2621 Van Buren Avenue

Norristown, PA 19403 USA T 1 866-254-0962 (USA only) T +1 610-676-8500 F +1 610-676-8625 VFCustomerSupport@megger.com (case sensitive email address)

#### **OTHER TECHNICAL SALES OFFICES**

Dallas USA, College Station USA, Sydney AUSTRALIA, Danderyd SWEDEN, Ontario CANADA, Trappes FRANCE, Oberursel GERMANY, Aargau SWITZERLAND, Dubai UEA, Mumbai INDIA, Durban SOUTH AFRICA, Chonburi THAILAND, Malaga SPAIN

#### CERTIFICATION ISO

Registered to ISO 9001:2008 Cert. no. Q 09250 Registered to ISO 14001-2004 Cert. no. EMS 61597

### CFL535G DS USen V05a

Www.megger.com Megger is a registered trademark Information contained herein subject to change without notice