

Fluke 225C and 215C Color ScopeMeter®

190 Series Color ScopeMeters with Industrial Bus Health Test



- Industrial Bus Health Test verifies electrical signal quality on industrial buses including Profi, Foundation, Modbus, CAN-bus, AS-i bus, RS-485 and more
- Easy signal validation of all relevant signal parameters
- Complete 190C Color ScopeMeter® (200 or 100 MHz model) built in
- Floating and fully isolated inputs for true differential signal measurements

Insert to brochure

"Oscilloscopes for field applications"

The Fluke 225C and 215C are the instruments of choice for maintenance specialists who deal with industrial buses and networks as well as general electronics. You can verify the electrical integrity of your bus and network, performing 'physical layer tests' and getting answers quickly and easily.

Based on the 200 MHz or 100 MHz 190C Series Color ScopeMeters, these instruments offer all functions found in the 190C Series, with added Bus Health Test capabilities.

Bus Health Test

Bus Health Test analyses the electrical signals on the industrial bus or network and gives a clear "Good", "Weak" or "Bad" validation mark for each of the relevant parameters, presented next to the actual measurement value. Measured values are compared to standard values based on the selected bus type, or you may set your personal reference values if you need different tolerances.

The Fluke 225C and 215C can make the signal quality validation as soon as electrical signals are passed along the network, without looking at the data content. They find errors like improper cable connections, bad contacts, incorrect grounding and missing or superfluous terminators.

Floating independently isolated input channels

Thanks to the independently isolated input channels and the floating inputs, the ScopeMeter can take truly floating

differential measurements from balanced 2-wire systems such as RS-485 and CAN. One input channel can be connected to measure the voltage between the two signal wires, and the other can be connected to measure the common mode voltage over ground at the same time, independently.

Large color screen

The large color screen of the 225C and 215C shows the individual parameters with validation, the actual measured value, the minimum and maximum values recorded over time, and the reference values used for the validation. The choice of parameters differs with the bus type and may include bias voltage, signal high- and low-levels, rise- and fall-times, in-band and out-band noise levels, jitter, pulse width, baudrate, and more.

Activity indicators

The activity indicators tell you the data flow is ongoing and they stop flashing the moment communications come to a halt. In the eye-pattern mode, a waveform display is built over successive signal passes to give you a visual indication of overall signal quality, noise levels and signal jitter.

Fluke 225C and 215C compared with other **ScopeMeters**

All ScopeMeters allow you to perform the basic electrical tests (such as copper resistance and isolation tests) on an electrical system or a cable. The Fluke 125 (see brochure

Activity: F-FIELDBUSH1 Hin 190 19.0 19.1 V 5.5 35.0 U-Level C 1.55 1.54 1.60 V 0.25 1.00 Data R 32.0 PS 31.3 31.1 32.5 Rise 5.5 5.4 5.8 PS H/W 0.0 56 Fall 5.5 5.8 PS HJO Jittee 0.8 0.0 Signal Dist. 30 3.6 % Moise-HF 0 0.053 V 0.000 0.200 --- V Moise 🗘 0.000 0.016 Moine-LF C

"Oscilloscopes for field applications") supports industrial network verification using a common reference ('ground') connection, and includes a 40 MHz Industrial ScopeMeter. The 225C and 215C give more extensive network analysis capabilities. Thanks to the isolated channel structure, the 225C and 215C give a far better immunity to common mode noise and disturbances and can measure common mode voltages separately. On top, the 225C and 215C come with higher measurement speeds and give you all the measurement capabilities associated with the 190C Series.

Fluke. Keeping your world up and running.®

Fluke Corporation

Everett, WA USA 98206

Web: www.fluke.com

Fluke Europe B.V.

P.O. Box 1186 5602 BD Eindhoven The Netherlands

Web: www.fluke.eu

For more information call:

In the U.S.A. (800) 443-5853 or Fax (425) 446 -5116 In Europe/M-East/Africa +31 (0)40 2 675 200 or Fax +31 (0)40 2 675 222 In Canada (905) 890-7600 or Fax (905) 890-6866 From other countries +1 (425) 446 -5500

or Fax +1 (425) 446 -5116

Fluke (UK) Ltd.

52 Hurricane Way Norwich Norfolk United Kingdom

Tel.: (020) 7942 0700 E-mail: industrial@uk.fluke.nl Web: www.fluke.co.uk

© Copyright 2008 Fluke Corporation. All rights reserved. Printed in the Netherlands 08/2008 Data subject to alteration without notice. Pub_ID: 11482-eng

Models

		Bandwidth	Sample rate	
	Fluke 225C	200 MHz	2.5 GS/s	Fluke 199C built in
	Fluke 215C	100 MHz	1 GS/s	Fluke 196C built in

For further details of the general ScopeMeter performance, refer to the ScopeMeter 190 Series brochure or Technical Datasheet

Ordering information

Fluke 225C 200 MHz Color ScopeMeter with Bus Health Test

Fluke 225C/S 200 MHz Color ScopeMeter with Bus Health Test, SCC-190 included

Fluke 215C 100 MHz Color ScopeMeter with Bus Health Test

Fluke 215C/S 100 MHz Color ScopeMeter with Bus Health Test, SCC-190 included

OC4USB Optically Isolated USB-interface cable sw90w FlukeView ScopeMeter software

C190 Hardshell carrying case for 190 Series ScopeMeters Software, case and cable kit for 190 Series ScopeMeter SCC-190 PM9080

Optically Isolated serial interface cable (RS-232)

