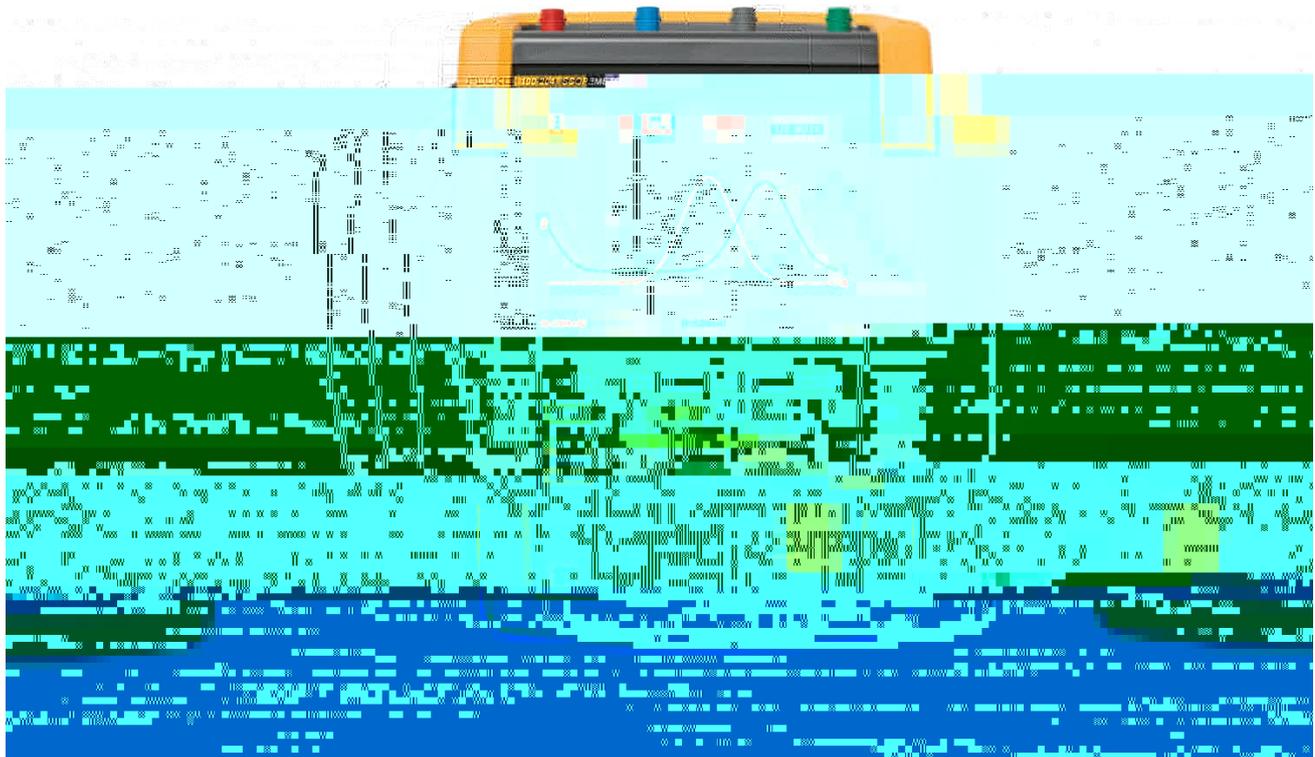




TECHNICAL DATA

# Fluke-190-104/S ScopeMeter € • , f „ ... † ‡



^ %Š <

Fluke ScopeMeter 190 II • ' É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö × Ø Ù Ú Û Ü Ý " ScopeMeter Š < • Þ Æ à á • â - ã • ä å ß æ ç è é ê ë Æ Ò Ì Í Î Ï Ñ Ò Ó Ô Õ Ö × Ø Ù Ú Û Ü Ý " • ð ñ ò ÷ ø • - Æ Š < ù ú û ü ý ^ ù þ ÿ " ð è >

190 II • ' 1 Ý" Š < • Þ Æ " Á Ý ± > Ý ‡ Æ TrendPlot™ - ScopeRecord™ ™ • Ž - ! ð Connect-and-View™ " # " \$ % & - Æ ' ð ( ) \* Ò ©

- +, -, ., ^ % / O 1 2
- É Ê Ì Í á CAT III 1000V/CAT IV 600V
- 60 MHz ð 100 MHz ð 200 MHz - 500MHz! 3 4 5 Å 6 7 8
- 9: ; Ó Å Ó < 5 GS/s Å ´ = ; Ó < 200 ps Þ > ? @ Ý" 4 5 Ñ A B E
- ¶ C D E © F, ~ Þ † G H I 10,000 J Å K L " Á M Ñ N O P Q
- R Ñ B 4 5 B Ý" 5000 è f f „ Ý ‡
- ~ S. ~ B 4 5 ² " ... † ‡ BNC 1 2 T U V . , Ý ‡ Š W
- Connect-and-View™ X Y Z " # ð [ J \ ] ð ^ \_ 3 C Ñ ` a " #
- ScopeRecord Ž Æ H I † G ? : f b c < ü 4 8 d e



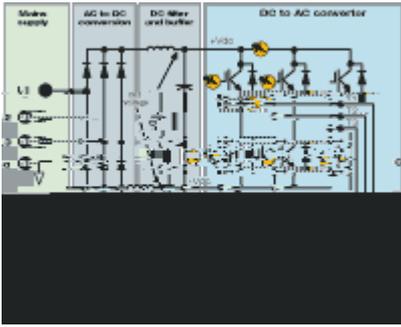
- TrendPlot
- j U" Z ŠWĀ\* ; VpwmōVAōWōPFE<sup>-</sup> ek mAsōV/sōw/sE
- I m<sup>-</sup> I n<sup>l</sup> í á IP51ĀĀŸ opqr
- /O" USB TsĀtuDEè<sup>-</sup> PC
- vOû<sup>^</sup> wxX(c" yVekk/©
  - 190-X04Ā. <sup>~</sup> B45c < 7de z { BP291E
  - 190-X02ĀR<sup>~</sup> B45c < 4de z { BP290E- | c < 8de Ÿ7 ÷ BP291E
  - ŸĀ7" } <sup>~</sup> w• <sup>^</sup> • EBC290 á Ÿ<sup>^</sup> w• <sup>^</sup>
- €• " <sup>^</sup> w, " Ā f" ( ...<sup>^</sup> w
- †™èO†eĀĀŸz<sup>^</sup> Kensington%– á ŪŠ<sup>-</sup> %Š...† ‡ " < ĀE•

ĀE• Ž• : Fluke-190-104/S ScopeMeter€• , f" ...† ‡

[Ž••' œ• Ž' < " " • 9-](#)

– á ĒĒĪ í < ū CAT III 1000V / CAT IV 600V" R<sup>-</sup> B<sup>-</sup> . <sup>~</sup> BĀE• Ž...† ‡ ĀFluke 190 II • ' ScopeMeter€...† ‡ Ē  
 ĐŌn—ōŪŸĐ<sup>-</sup> ĀE• Đ<sup>-</sup> 1™> " Ā 78 60 MHzō100 MHzō200 MHz - 500 MHz! 345Āš e 9: ; Ó< 5

psš



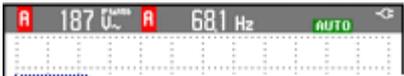
3/4 VSDs\* - \* ; U<sup>a</sup> • - ü...• à  
 æ « Ö\* ; 1 2<sup>2</sup> " ý† ðp<sup>a</sup> - ï  
 æ ÄÄ<sup>^</sup> - 2 Ä Äü...• - 1 ä IGBT í "  
 æ ^ us - Š < ë - p<sup>a</sup> " PWM 1 ä  
 æ • Ü Š W IGBT ^ \_ " j ek ð ë " ± 2 - 2  
 æ UV Vpwm Š W Ä Š W 1 ä j " x ^ î



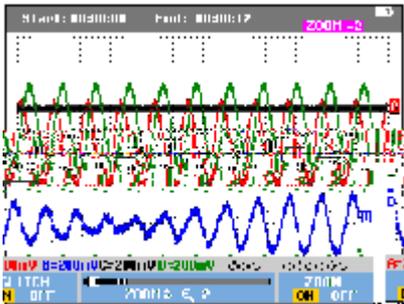
Áí mV kV " § " Ê Ë Š W  
 " 1 2 " Á



USB tuE HI - > ? † G  
 Ø4 Fluke 190 II • ' %ó+, USB Ts ÆOÑŠW12^ - > E É f  
 b 1 PC> Á †GÃOÑà@è ÆABðáÕ~ xXèé>?†G>  
 ÁÉ†GðCDHI E~ÿ•è~ÚD USB DE è > ScopeMeter€ Š<  
 • ÞÁÉÄ÷DE á CSVF Ž ÆØGF Ž" Ä÷Ä 1 UH> ØGÄ÷FŽÄ  
 í Excel€² Ý U'1 f b ÄJ Ä í FlukeView€² Ý (KPÇ´ 8  
 † G>



Connect-and-View™ " # Áš æ p e ð L Š" ž ...  
 „ &“ M Ý S ...† ‡ Ä" N5OP" # æ) Ý Í > „ &è~ QÜÄÖ  
 &ÄÖ LŠ- QÜ>  
 Connect-and-View™ SRSA5° 4 Z è~QÜ" " #> TMT" î UVÄ  
 " ÆÁI WLŠðÁ6ðúÑž..." æA5Ä ^ μ ~ ÄÄA5> †"  
 ¼½ðt YÇŠW1 • ' Š< ¼eÄX\* ÖI áYZ~ < Æ>



ScopeRecord™ Ž Áš æ c < 48 de" Ó´ =; † G  
 ScopeRecord™ DE • Áí F, ~ B; DE Ó< 30000, - ( ) f b ¼ÄÖ 8  
 ns" ½CHI ¼½k ÖðÖ÷~ > ÁDE+é) ~ B Ä6[ \´ 8'  
 Ý> E  
 æ Ö÷Ä „ ] Ä÷~ UPSð^ ^ - ^ μ• ~ ` >  
 æ' » ÚX" # Ž Ä ScopeMeter€ Š< • ÞÁZ RS^ ^ ODE 1  
 • " † G f b>



TrendPlot™™ Ý - ec < 22 i ÄÄa» " Ní k Öð  
 >  
 bc# " (d#æ> ØÜkÖð ÁÖ etu †ðfmð3gðh  
 i ð¿%-j k" u#l m> %-²¿ðno- ^ μ• ~ ÉÇJ ÁÖpqrÉμ>  
 †# ØÛrseÄ" ÁÖ í t u Äv FlukeScopeMeter€ Š< • Þ5a" ø  
 ewÄ>  
 æž ...c < 22i " xd ²~ xí ² Ä—É²  
 æž... æ12" ^ í ð^ Áð©Cða; ~ ÖyÄ æØÜâz Éz æek~  
 [ ` Ä ÆNO

Æ • • ' : Fluke-190-104/S ScopeMeter€ • , f „ ...† ‡

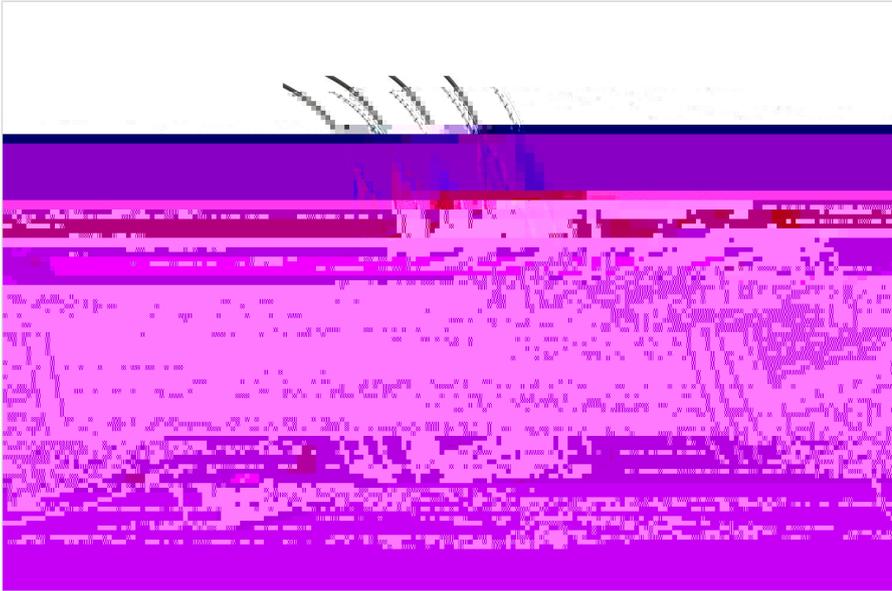
| æç { z |         |
|--------|---------|
|        | 500 MHz |
|        | 500 MHz |
|        | 200 MHz |
|        | 200 MHz |
|        | 100 MHz |
|        | 100 MHz |
|        | 60 MHz  |



|  |  |
|--|--|
|  | 500 MHz @ 4 ~ B<br>500 MHz @ 2 ~ B<br>200 MHz @ 4 ~ B<br>200 MHz @ 2 ~ B<br>100 MHz @ 4 ~ B<br>100 MHz @ 2 ~ B<br>60 MHz @ 2 ~ B   |
|  | 5 GS/s<br>5 GS/s<br>2.5 GS/s<br>2.5 GS/s<br>1.25 GS/s<br>1.25 GS/s<br>625 MS/s   |
|  | 4x BNC 1 2 Y ... + ± - Y ± ŠW<br>2, BNC 1 2 - 1, DMM 1 2   |
|  | 1 2 ð   - u Ç 1 k Ó < 1000 V CAT III / 600 V CAT IV  |
|  | 1 ns/div 4s/div 190-504 Å 500 MHz 4 5 £<br>2 ns/div 4s/div 190-20X Å 200 MHz 4 5 £<br>5 ns/div 4s/div 190-10X Å 100 MHz 4 5 £<br>10 ns/div 4s/div 190-062 Å 60 MHz 4 5 £ |
|  | 2 mV-100 V/div } i ~ G ð È   |
|  | Connect-and-View™ Å Z e y V Å [ J \ Å Å • e Å R € ; Å ` a Å ` a<br>%- Å Å 7 ^ _ 3 C Å N • q  |
|  | 2, BNC 1 2 - ~ S DMM 1 2 t u } ,<br>4, BNC 1 2   |
|  | 8 ns   |
|  | : 7<br>30  |
|  | : F J 1 2 30,000 pt<br>: F J 1 2 10,000 pt   |
|  | f „ f „ % 6 ° ... † ... † † " † G ð È  |
|  | ! ¨ Z ~ S / ñ † Š < " † G  |

|  |  |
|--|--|
|  | 0IEC 40IEC Ž ^ w£<br>0IEC 50IEC Ž ^ w£   |
|  | -20•C +60•C  |
|  | CAT IV 600 V/ CAT III 1,000 V x Óá 2,000 m (6666 ft)<br>CAT III 600 V/ CAT II 1,000 V x Óá 3,000 m (10,000 ft) |

# Ordering information



## Fluke 190-104/S

ScopeMeter • , f „ ...† • Å 100 MHz Å 4 ~ B } DMM } , 1 2 Å ø t SCC-290 † ÷

- , ScopeMeter Å 100 MHz
- 4 , ~ B
- DMM/Ext. 1 2
- C290“ / Î %”
- ...† ‡ Š < • P SW90W FLUKEVIEW
- Windows • ÷

### Optional accessories

### Description

VPS420-R...† ‡ Š < " # é Å - , Š < % " # Å - , u Ç ~ û Å ^ î ^ a ´ © 100:1 Å x İ Š < ! 3 © 150 MHz Å • - ^ î "™ Š T - | p % ! k " ^ î E © 2000V CAT III / 1200V CAT IV >

Fluke VPS510-R } Ü 4 š Ý ...† ‡ ^ î " # é - , E Å 10:1, 500 MHz, 300 V CAT III >

