

New ARB built-in waveform of MFG-2000 series



The medical and Autoelectro-Relevant waveforms





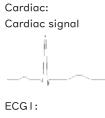




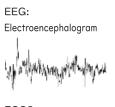
MFG-2000 Series

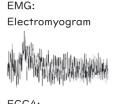
The Medical waveform and Autoelectro-Relevant Waveforms has been added to the built-in arbitrary waveform of the MFG-2000 series. After updating to firmware 2.04 or later, 36 types of medical and Autoelectro-Relevant waveforms can be added to the built-in data of arbitrary waveforms.

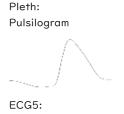
ARB Built-In Medical Waveforms









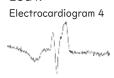




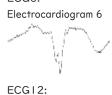












Electrocardiogram 7

Electrocardiogram 8

ECG8:

Electrocardiogram 9

ECGIO: Electrocardiogram 10

Electrocardiogram II

ECGII:

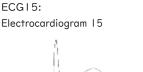
Electrocardiogram 12



Electrocardiogram 13 Electrocardiogram 14

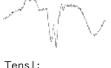
ECG14:

ECG9:





LFpulse: Waveform of the low frequency Waveform I of the nerve pulse electrotherapy

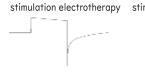


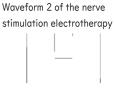
Tens2:

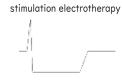
Tens3: Waveform 3 of the nerve







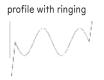




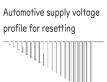
Ignition waveform of

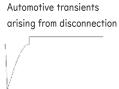
ARB Built-In Autoelectro-Relevant Waveforms ISO 16750-2 SP: ISO I 6750-2 VR: ISO7637-2 TPI: Ignition:

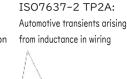
the automotive motor

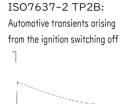


Automotive starting









ISO7637-2 TP3A: Automotive transients arising from inductance in switching

ISO7637-2 TP3B: Automotive transients arising from switching

ISO7637-2 TP4: Automotive working profile during start-up

ISO7637-2 TP5A: Automotive transients arising from cut-off of battery power

ISO7637-2 TP5B: Automotive transients arising from cut-off of battery power

MFG-2000 ARB Waveforms



MFG-2000 Series

⊘ MFG-2000 series specific functions

MFG-21XXSeries:

I Channel



MFG-22XXSeries: 2 Channel

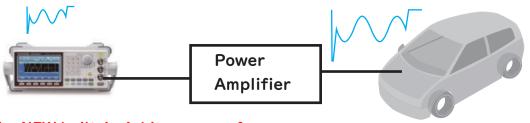


| | CHI Function With ARB | CH2 Function With ARB | 25MHz Pulse Generator | RF Generator (Function With ARB) | Power Amplifier | Modulation /Sweep/Burst/ Frequency Counter |
|-------------|-----------------------------|-----------------------------|-----------------------------|--|--------------------|--|
| MFG-2110 | ● IOMHz | | • | | | |
| MFG-2120 | • 20MHz | | • | | | |
| MFG-2120MA | • 20MHz | | • | | • | • |
| MFG-2130M | ● 30MHz | | • | | | • |
| MFG-2160MF | ● 60MHz | | • | ● I60MHz | | • |
| MFG-2160MR | ● 60MHz | | • | ● 320MHz | | • |
| MFG-2230M | • 30MHz | • 30MHz | • | | | • |
| MFG-2260M | ● 60MHz | ● 60MHz | • | | | • |
| MFG-2260MFA | ● 60MHz | ● 60MHz | • | ● I60MHz | • | • |
| MFG-2260MRA | ● 60MHz | ● 60MHz | • | ● 320MHz | • | • |

Arbitrary Functions

| ARB function | Built-in 102 waveforms | | |
|------------------------------------|--------------------------------------|--|--|
| Maximum Sample Rate | 200 MSa/s | | |
| Maximum Repetition Rate | I 00MHz | | |
| Waveform Length | 16k points | | |
| Amplitude Resolution | 14 bits | | |
| Non-Volatile Memory | 16k points(I), 10 sets, | | |
| User-defined output section | From 2 point to 16384 point | | |
| User-defined output marker section | From 2 point to 16384 point | | |
| Output mode | I to I048575 cycles or infinite mode | | |

Example: Autoelectro-Relevant Waveforms



Ignition and ISO | 6750-2 waveform

The NEW built-in Arbitrary waveforms:

Medical:

Cardiac, EOG, EEG, EMG, Pleht, Resp, ECG1, ECG2, ECG3, ECG4, ECG5, ECG6, ECG7, ECG8, ECG9, ECG10, ECG11, ECG12, ECG13, ECG14, ECG15, LFpulse, TENS1, TENS2, TENS3,

Autoelectro-Relevant Function:

IGNITION, ISO16750-2 SP, ISO16750-2 VR, ISO7637-2 TP1, ISO7637-2 TP2A, ISO7637-2 TP2B, ISO7637-2 TP3A, ISO7637-2 TP3B, ISO7637-2 TP4, ISO7637-2 TP5A, ISO7637-2 TP5B