



The medical and Autoelectro-Relevant waveforms





EEG:



The Medical waveform and Autoelectro-Relevant Waveforms has been added to the built-in arbitrary waveform of the AFG-302X / 303X series. After updating to firmware 2.01 or later, 36 types of medical and Autoelectro-Relevant can be added to the built-in data of arbitrary waveforms.

EMG:

Electromyogram

\square **ARB Built-In Medical Waveforms**





ECG2:

ECG8:

ECGI4:

Electrocardiogram 2

Electrocardiogram 8

FOG:

ECGI: Electrocardiogram I



ECG7: Electrocardiogram 7



ECGI3: Electrocardiogram 13



Electrocardiogram 14

LFpulse: Waveform of the low frequency pulse electrotherapy

Tensl: Waveform I of the nerve stimulation electrotherapy



Electroencephalogram

FCG3: Electrocardiogram 3



ECG9: Electrocardiogram 9



ECGI5: Electrocardiogram 15

Tens2: Waveform 2 of the nerve stimulation electrotherapy

Tens3: Waveform 3 of the nerve

ARB Built-In Autoelectro-Relevant Waveforms

Ignition: Ignition waveform of the automotive motor



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





ISO7637-2 TP3B: Automotive transients



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

ISO16750-2 VR:

Automotive supply voltage

profile for resetting

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ISO7637-2 TPI:

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





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

Resp: Speed curve of the respiration

ECG6: Electrocardiogram 6



ECGI2: Electrocardiogram 12



ISO7637-2 TP2B:

Automotive transients arising

from the ignition switching off

stimulation electrotherapy

FCG4: Electrocardiogram 4



ECGIO: Electrocardiogram 10







ECGII: Electrocardiogram ||

ECG5:

Pulsilogram

Pleth:







AFG-303x & AFG-302x Arbitrary Function Generator



AFG-3032: $I \mu Hz - 30MHz$, 2 Channel AFG-3031: $I \mu Hz - 30MHz$, 1 Channel AFG-3022: $I \mu Hz - 20MHz$, 2 Channel AFG-3021: $I \mu Hz - 20MHz$, 1 Channel

Arbitrary Functions

ARB Function	Built in 100 waveforms
Maximum Sample Rate	250 MSa/s
Maximum Repetition Rate	I 25MHz
Maximum Waveform Length	8M points
Amplitude Resolution	l 6 bits
Non-Volatile Memory	Ten 8M waveforms*
User-defined Output Section	Any section from 2 to 8M points
Trigger	Infinite / Manual / External

*: A total of ten waveforms can be stored. (Every waveform can be composed of 8M points maximum.)

Example: Autoelectro-Relevant Waveforms

Output an N Cycle function uses manual triggering or external triggering.



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