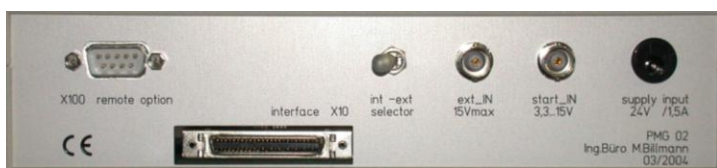
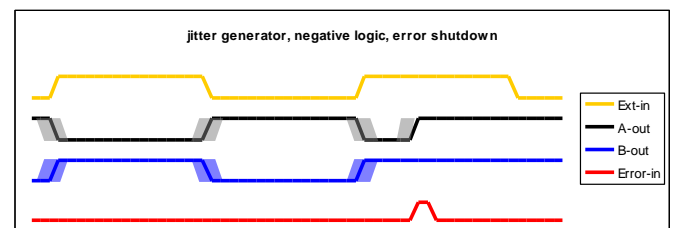
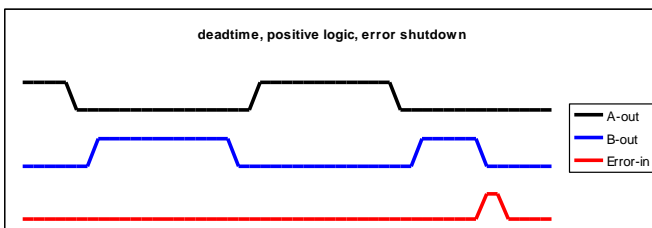
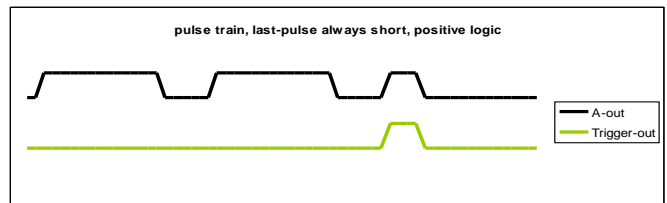
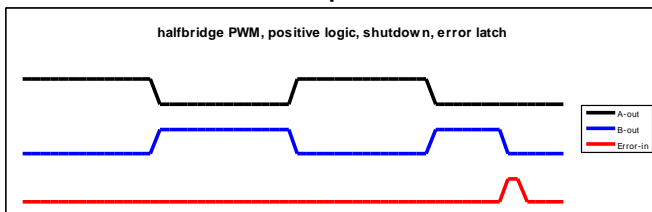


# Pulse Pattern Generator PMG 02 for Power Electronic Measurements



## Pulse Pattern Examples:



Type:	PMG 02
Version:	1.32
date:	21.04.2013

rear view

## General Features

- two channel pulse pattern generator for digital rectangle pulses with additional trigger output
- logic level from 2,5V to 15V, positive or negative logic
- built in auxiliary supply 5V to 15V ( $1A_{max}$ ) for driver supply
- frequency range from 0.1Hz to 1MHz ,linear in 7 decades
- duty cycle in 1% steps free from any jitter
- shutdown input with error latch sets all outputs into logic off status, including trigger out
- shutdown tolerates various error definition
- continuous mode operation or pulse trains on demand
- pulse train one to 9 pulses, repetition rate 1 Hz max
- trigger pulse synchronous to any of the nine pulses selectable
- last pulse in pulse train is default 15 $\mu$ sec (no overload of d.u.t. commutating close to nominal currents), variable length
- one external PWM signal can be feed through both output amplifiers. Internal active are level shifters, jitter-generator, logic inversion, shutdown and error latch
- external signals are handled with a adjustable jitter in the range of 20nsec up to >60 $\mu$ sec
- built in deadtime generator, presettable in coarse and fine steps
- negative deadtimes for current feed inverters
- possible overlap of PWM signals to evaluate cross conduction or short circuit mode II up to >60 $\mu$ sec
- output amplifiers tolerant to 50 $\Omega$ . Suitable for direct LED or fibre optical transmitter driving, rise / fall time typ. 7nsec
- all outputs and important preset functions are present at one rear panel connector for faster test setup times
- various interface adaptations available
- low cost compared to arbitrary generators