



RetroSign - TAG Readers

Barcode Reader Implementation

The Barcode Reader Module is a LED based line scanner making it totally safe to operate. The reader is easily attached to the device shoe mounted on the front of the instrument and connected to the front connector.

The Barcode Reader function is activated when the TAG option has been enabled in the menu. When enabled, the tag reader is checked every time the instrument is turned on; if the function is on and the reader has been detached the user is asked to disable the TAG reader function. The reader is activated prior to every measurement on the first trigger action. When the tag has been read, the tag code is displayed and the next trigger action will execute the measurement. If the mean calculation function is on, the reader will only be activated prior to the first measurement. This makes it possible to do multipoint measurements without the need to read the tag for each measurement. To guide the aiming process the scanner LED's are pulsed on and off until the bar code has been read.

Barcode Reader spec.

- Mechanical: Solid state, no moving parts
- Light Source: 617nm highly visible LED
- Ambient Light: up to 100.000 lux
- Scan angle: up to 40°
- Scan skew: up to 65°
- Scan pitch: up to 75°
- Tilt: up to 25°
- Reading distance: up to 90cm / 35" (depending on code type and tag condition)
- Bar Code geometry: min x dimension 0.1mm / 4mil with a contrast down to 25%
- Symbologies: Codabar, Code 39, Code 93, Code 128/GS1-128, UPC-A, UPC-E, EAN-8, EAN-13
- GR1-3 Limitations: Characters truncated after 20 symbols.