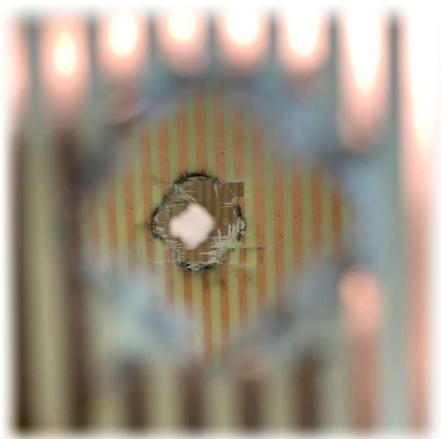


DIGITAL FRAGMENT TESTING

for BALLISTIC TEST FACILITIES

Digital fragment test system with up to 192 channels @ 40ns time resolution with fiber-coupled subsystems. Inputs include screen power supply to directly drive the connected break screens. Software allows to check for proper cable connections to the screens and detects screen short circuits.



Standard and multi-hit make screens available with optimized matrix design and diagnostics.

The SATURN digital measurement system for fragment tests and ballistic applications handles up to 192 input channels in one system - either all integrated into one cabinet or split between bunker and test site.



Example: Portable 8-channel fragment test system with make screen power supply and diagnostic features, combined with high-speed analog data acquisition channels in a FlatSaturn unit.

Up to 64 digital input channels directly fit into a 19" rack main system. Extensions of additional 2x 64 channel subsystems are simply connected via one fiber-optical cable. Main and subsystems can be installed together in a rack cabinet in a bunker. In a split setup, the robust subsystems can be placed closer to the explosive charge. With only one long-distance fiber-cable for 64 screens, the test setup is simplified and the preparation effort is reduced to a minimum. Robust fiber-optical cables, rodent-proof and armored, can be used to bridge any distance between bunker and test site.

INTELLIGENT DIAGNOSTICS

for SIMPLIFIED TEST SETUP

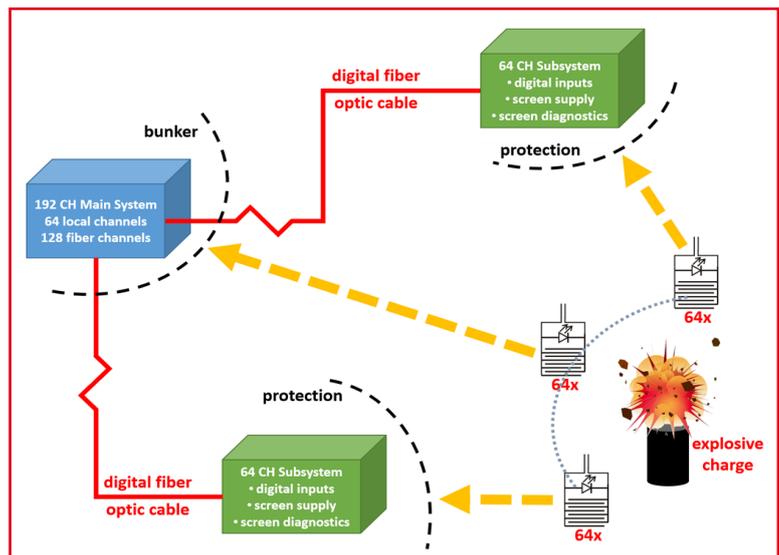


The digital acquisition channels already contain the screen power supply to directly connect the make/break screens. Built-in diagnostics allows to check screens for proper connection to the system and to verify for short circuits at any time. Diagnostic results are displayed via LEDs on the screens and inputs, error warnings in software alert the user.

The initial trigger can be realized with a fiber cable, wrapped around the explosive charge or with an additional analog data acquisition channel. Alternatively, one of the screens can be used to detect a trigger.

- 192 channel **digital data acquisition**
- 40ns (10ns) resolution
- **Simplified test setup**
 - one **single cable per 64 channels**
 - plugged screen connections
- **Split configuration option**
 - main system a in bunker (64CH)
 - subsystems **close to charge** (128CH)
- **Screen supply included**
 - 45V touch-proof
- **Screens with diagnostic functions**
 - correct connection
 - open / short detection
 - status display
- **Easy configuration and control SW**
 - intelligent digital filter setup
 - diagnostic support
 - result & **slow-motion video** export

Example: Main system in a bunker with fiber-optically connected subsystems. Each unit supports up to 64 break screens with digital data acquisition input, integrated 45VDC break screen supply and diagnostic functions.



Contact us:

Roermonder Strasse 594
52072 Aachen
Germany

Web: www.amotronics.de
E-Mail: info@amotronics.de
Phone: + 49 241 169780 28
Fax: + 49 241 169780 55