

TSC AMIGO2

Evolving ACFM



EVOLVING ALTERNATING CURRENT FIELD MEASUREMENT

Over its 30-year history, ACFM® technology has developed a solid reputation for accurately detecting and sizing surface-breaking cracks through paint and coatings.

The original Amigo® ACFM instrument has earned a reputation for ruggedness, reliability, and ease of use. As the industry demands increased performance in speed, signal quality, and portability, it's time for an evolution. It's time for **TSC Amigo2**.

Faster Inspections and Better Data

TSC Amigo2 is engineered around a highly advanced signal acquisition and processing system able to process data significantly faster than the original Amigo, for a data range that's 14 times better. This offers you smoother, higher resolution indications that increase the detectability of small defects and the coating thickness through which you can inspect.

Portable with Embedded and Remote Software

TSC Amigo2 is a self-contained unit incorporating electronics, multi-touch display, and storage in one rugged enclosure. This removes the need for a remote computer and cables, enhancing portability. Of course, those of you who still wish to use a remote computer still can.

Backward Compatibility Probes

TSC Amigo2 comes equipped with a connector supporting the use of all original Amigo probes—array and standard manual probes—simply by importing the relevant QPC files. TSC Pace® pencil probes are also supported through a dedicated Sensu® connector. Furthermore, you can connect several probes to TSC Amigo2 at the same time, rapidly switching between them in the software.

The Essence of ACFM: Assist

Experienced ACFM operators will feel immediately at home—with familiar Bx/Bz traces and butterfly taking center stage on the TSC Amigo2 screen—while the multi-touch interface offers a highly intuitive access to all software functions in ribbon form.



A PLATFORM FOR EVOLUTION

TSC Amigo2 features a Sensu2 connector which will be used by a new generation of ACFM probes—manual or array. The Sensu2 connector supports up to eight digital inputs for high-speed, large-array applications. Together, TSC Amigo2 and its Assist software are fully designed and ready to support the evolution of ACFM probes.

Applications

TSC Amigo2's main focus is detecting and sizing surface-breaking cracks in a variety of metal components through paint and coatings. Its numerous application areas include:

- Weld inspection: w/ standard probes and single-pass array probes
- One or two-person operation (e.g., confined spaces)
- High-temperature applications
- Inspection through thick coatings
- Thread inspection
- Splash zone inspection

Get Service at all Eddyfi Technologies Centers Around the Globe

Maintenance is key in keeping your valuable asset in peak working condition. Access to our worldwide support centers gives you fast turnarounds, which minimizes shipping and lost opportunity costs by keeping your TSC Amigo2 in the field longer.

How the Technologies Compare

AMIGO	AMIGO2
Limited acquisition speed (single analog input)	Faster acquisition speed (2-8 digital inputs)
Legacy connector only	Legacy AMIGO, SENSU1 (PACE) and SENSU2 probe connectors
Optional array	Built-in array
Probe configurations stored on PC as a separate file	Probe configurations stored directly on probe (SENSU1 or SENSU2)
Single Frequency- upgradable to dual	Dual/Multiple Frequency
Legacy Assist software on separate PC	Integrated (touchscreen) or RDAU (Laptop). New intuitive Assist software on continuous evolution
1 x Encoder Input (via probe)	2 x Encoder Inputs - via probe or external IO Connector



SPECIFICATIONS

INSTRUMENT

Dimensions (W x H x D)	355 x 288 x 127 mm (14.0 x 11.3 x 5.0 in)	
Weight with batteries	6.6 kg (14.5 lb)	
Volume	13 L (791 in ³)	
Power requirements	100–240 VAC, 50–60 Hz	
Power supply	Direct VAC or onboard batteries	
Batteries	Type	Li-ion, rechargeable, DOT compliant
	Typical life	6–8 hours
Video output	HDMI	
Encoders	2 axes, quadrature	
Connectivity	Gigabit Ethernet, Wi-Fi, Dual Mode Bluetooth® 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE), USB 2.0 (x 3)	

ENVIRONMENTAL

IP rating	Designed for IP65
Operating temperature	0–40°C (32–104 °F)
Operating humidity	95%, non-condensing
Compliance	ASME, EN61010-1, CE, WE

INSTRUMENT (CONT.)

Display	26.4 cm (10.4 in)
	Non-reflective (AR coating)
	Anti-fingerprint (oleophobic coating)
	3 mm (1/8 in), chemically strengthened glass cover
Display	Optically bonded LCD and touchscreen
	Passive backlight enhancement
Storage	SSD, 100 GB
Cooling	Sealed and fanless
Probe inputs	SENSU, Sensu2, AMIGO
Supported probe cable length	Maximum 50 meters
Frequency	5 kHz and 50 kHz
Data resolution	16 bits

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