

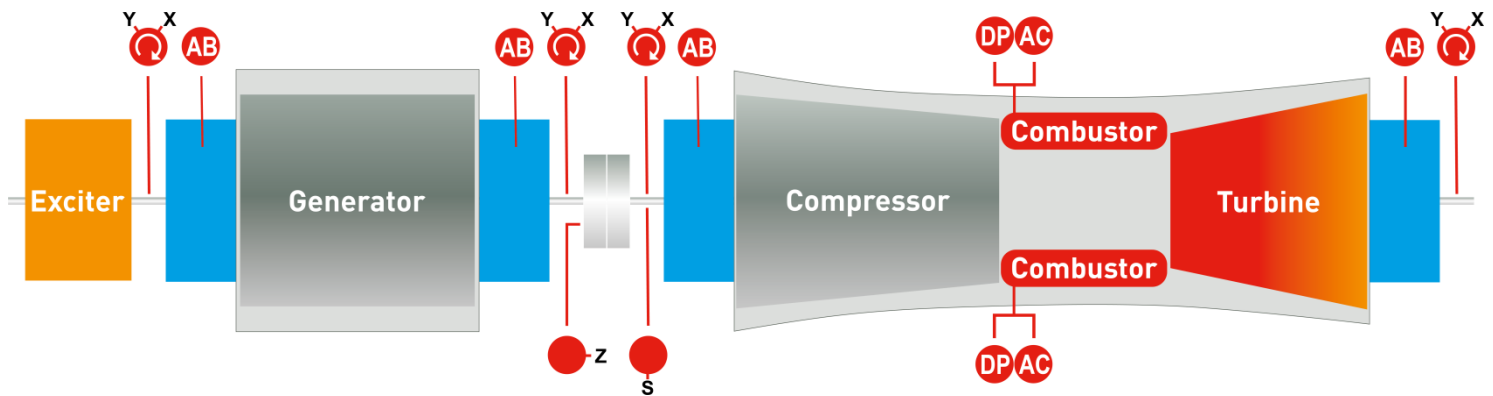
Meggitt Vibro-Meter® sensors as standard on Ansaldo AE 94.3A

High-performance sensors and monitoring systems

After decades working with the world's turbine manufacturers and power plant integrators, Meggitt has developed one of the widest and most comprehensive ranges of sensors for extreme environments from the Vibro-Meter® product line, including cabling, electronics and associated accessories.

These high-quality, high-reliability sensors, our VM600 and Vibrosmart® hardware, and Vibrosight® software enable the monitoring and/or protection system solutions necessary to measure every parameter and provide detailed information on the operating condition of your machinery.

The Meggitt Vibro-Meter® sensors that are standard fit on the Ansaldo AE 94.3A gas turbine are highlighted in the drawing below. To learn more about these sensors and our full range of sensors and monitoring systems, visit the Meggitt Vibro-Meter® website at meggittsensing.com/energy



Shaft relative vibration (x, y)
TQ402



Speed / phase reference
TQ402



Bearing absolute vibration
CA202



Thrust / axial position
TQ403



Combustion chamber vibration
CA901



Dynamic pressure
CP704

Meggitt Sensing Systems

Rte de Moncor 04, 1701 Fribourg, Switzerland
Tel: +41 26 407 11 11 | energy@ch.meggitt.com | www.meggittsensing.com/energy



Gas turbine monitoring

Ansaldo AE 94.3A

Bearing absolute vibration

- **CA202 piezoelectric accelerometer (x 8)**
P/N: 144-202-000-105
- **IPC704 signal conditioner (x 8)**
P/N: 244-704-000-042 A2 B03 C100 D77 E10 F5000 G1 H04 I04

Shaft relative vibration

- **TQ402 proximity probe (x 8)**
P/N: 111-402-000-013 A2 B1 C072 D000 E100 F2 G100 H10
- **IQS450 signal conditioner (x 8)**
P/N: 204-450-000-002 A2 B23 H10 I0

Phase reference

- **TQ402 proximity probe (x 2)**
P/N: 111-402-000-013 A2 B1 C072 D000 E100 F2 G100 H10
- **IQS450 signal conditioner (x 2)**
P/N: 204-450-000-002 A2 B23 H10 I0

Axial position

- **TQ403 proximity probe (x 2)**
P/N: 111-403-000-013 A2 B1 C086 E100 F2 G100 H10
- **IQS450 signal conditioner (x 2)**
P/N: 204-450-000-002 A2 B31 H10 I0

Combustion chamber vibration of the casing

- **CA901 piezoelectric accelerometer (x 3)**
P/N: 144-901-000-701
- **IPC704 signal conditioner (x 3)**
P/N: 244-704-000-042 A2 B01 C10 D50 E2 F10000 G1 H03 I04

Dynamic pressure in the combustion chamber

- **CP704 dynamic pressure sensor (x 2)**
P/N: 143-704-000-011
- **IPC704 signal conditioner (x 2)**
P/N: 244-704-000-042 A2 B07 C217 D5 E5 F20000 G1 H03 I04

Dynamic pressure in the burners

- **CP704 dynamic pressure sensor (x3)**
P/N: 143-704-000-011
- **IPC704 signal conditioner (x3)**
P/N: 244-704-000-042 A2 B07 C217 D5 E5 F20000 G1 H03 I04



Gas turbine monitoring

Ansaldo AE 94.3A

- **VM600 system**

P/N: VM600SYS / A611-004-100-001

B1 / C40S / D5 / E5 / F600 / G00 / H00 / Y0 / AA07 / ZA01 / ZT4 / ZU2 / ZX5 / ZY2

- **ABE042 VM600 system rack (x 1)**

P/N: 204-042-100-01x

- **RPS6U rack power supply (x 2)**

P/N: 200-582-500-021

- **MPC4 machinery protection card (x 7)**

P/N: 200-510-SSS-1Hh

- **IOC4T input/output card for MPC4 (x 7)**

P/N: 200-560-SSS-1Hh

- **RLC16 relay card (x 1)**

P/N: 200-570-000-1Hh

To be added to measurement chains:

- **GSI127 galvanic separation unit (x 16) for piezoelectric sensors**

P/N: 244-127-000-017 A2 B02

- **GSI127 galvanic separation unit (x 14) for proximity probes**

P/N: 244-127-000-017 A2 B05

- **ABA171 industrial housing (x 2)**

P/N: 830-171-000-011 A2 B00 C00 D02 E02 F00 G00 H00 I00 J00 T00

- **ABA172 industrial housing (x 2)**

P/N: 830-172-000-011 A2 B00 C00 D04 E04 F00 G00 H00 I00 J00 T00