

SIMRAD TP90



KONGSBERG



SIMRAD TP90:

Catch monitoring positioning transceiver

- Small and compact
- Easy to install
- Interfaces one or two catch transducers
- Ethernet connection to local computer
- Uses Simrad TV80 topside software
- Several PxPos sensor types available
- Works with legacy ITI sensors

The Simrad TP90 Catch Monitoring Positioning Transceiver is part of the Simrad TV80 catch monitoring system. The system provides information about the relative and absolute position (using Depth measurement) of the ITI and PxPos sensors placed on the trawl.

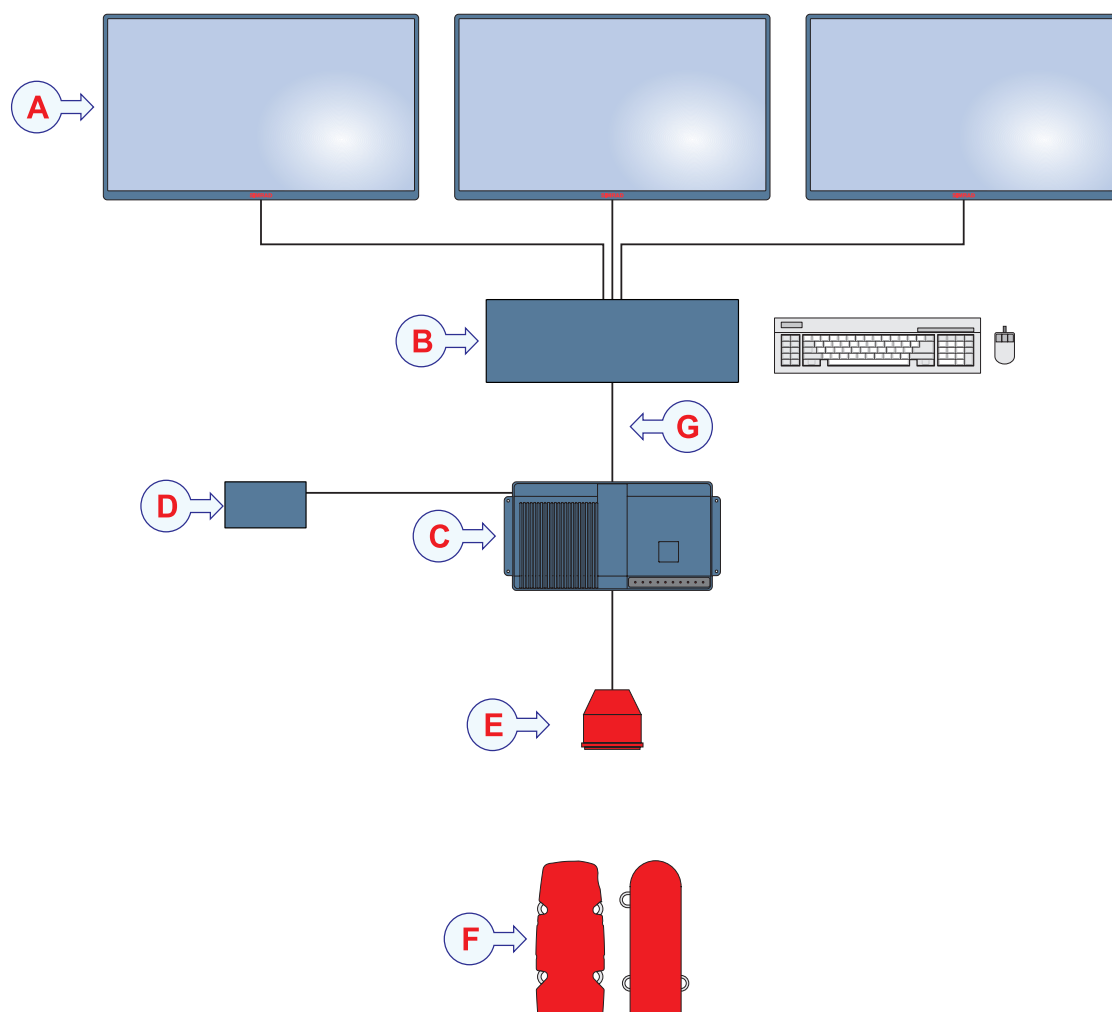
The Simrad TP90 connects to one or two transducers. Initially, only single transducer installation is supported.

A Simrad TV80 system with PxPos sensors and a TP90 Catch Monitoring Positioning Transceiver allows you to measure the range and bearing to each sensor on the trawl. These two measurements provide the position of the sensors relative to the vessel, and thus the location of the trawl. When this position is known you can easily avoid wrecks and other obstacles on the seabed. You can further target your fishing grounds more efficiently by combining the information from the PxPos sensors with the echo information from your echo sounder and sonar.

The TP90 can receive information from all legacy ITI sensors except the ITI TrawlEye, ITI Catch, ITI Temperature, and ITI Grid. This means that a TV80 system fitted with a TP90 transceiver can replace an existing ITI system.

Simrad TV80 system diagram with TP90 Catch Monitoring Positioning Transceiver

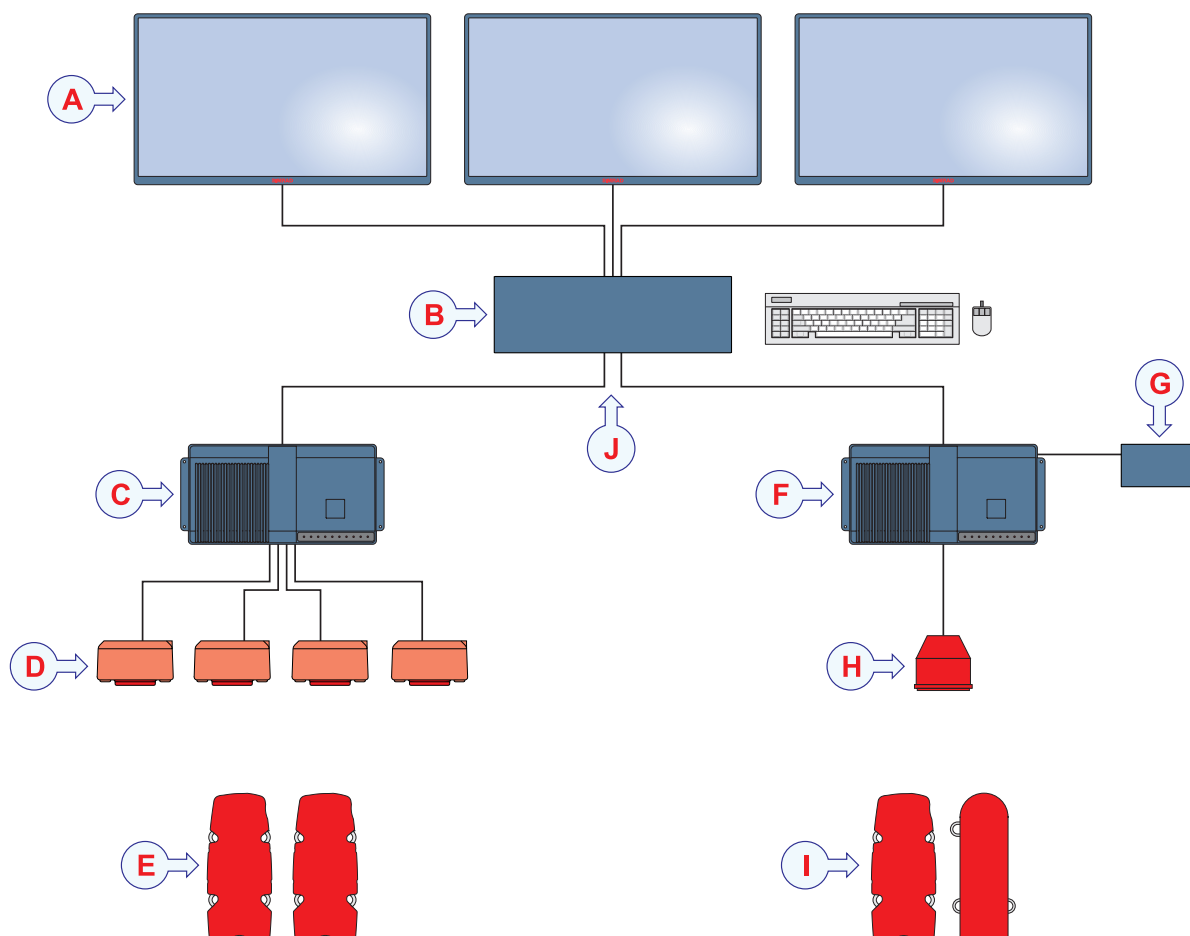
This system can replace an old Simrad ITI system.



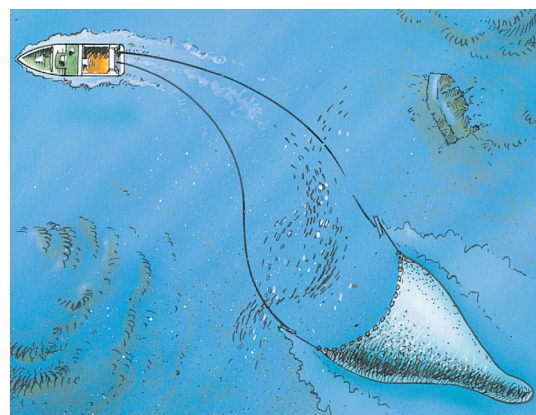
- (A) Display (One display is mandatory, additional displays are optional)
- (B) Processor Unit (computer) with Simrad TV80 catch monitoring software
- (C) Simrad TP90 Catch Monitoring Positioning Transceiver
- (D) Power supply for TP90
- (E) Transducer
- (F) PxPos and ITI sensors
- (G) Ethernet communication

Simrad TV80 system diagram with TP90 Catch Monitoring Positioning Transceiver and SR70 Catch Monitoring Receiver

This system can replace an old Simrad ITI system, and will also support the PI and PX sensors.



- (A) Display (One display is mandatory, additional displays are optional)
- (B) Processor Unit (computer) with Simrad TV80 catch monitoring software
- (C) Simrad SR70 Catch Receiver
- (D) PI hydrophones
- (E) PX and PI sensors
- (F) Simrad TP90 Catch Monitoring Positioning Transceiver
- (G) Power supply for TP90
- (H) Transducer
- (I) PxPos and ITI sensors
- (J) Ethernet communication





Single split-beam transducer for TP



PxPos sensor



ITI sensor

TP90 Transceiver technical specifications

At Kongsberg Maritime, we are continuously working to improve the quality and performance of our products. The technical specifications may be changed without prior notice.

Connections/Interfaces:

- Ethernet to TV80 Processor Unit (The TP90 Transceiver requires the Simrad TV80 Catch Monitoring software on a separate TV80 Processor Unit.)
- Single split-beam transducer for TP
- DC Power

Data I/O:

- The TP90 Transceiver only supports the transducer interface, and the Processor Unit Ethernet interface. GPS, Gyro, NMEA, serial and LAN interfaces are located on the TV80 Processor Unit.

Weight and outline dimensions:

- Depth: 213 mm
- Width: 438 mm
- Height: 84 mm
- Weight: 5 kg

Environmental requirements:

- Operational temperature: 0 to 50°C
- Storage temperature: -40 to 70°C

Power requirements:

- 12 to 15 VDC, 5A
- A suitable power supply unit is provided with the TP90.

Power Supply Unit:

- Input voltage: 115/230 VAC, 47-63 Hz, single phase
- Operational temperature: 0 to 50°C
- Storage temperature: -40 to 70°C
- Relative humidity: 5 to 95% relative non-condensing

Supported ITI sensors:

- ITI Depth
- ITI Temperature / Depth
- ITI Remote
- ITI Spread
- ITI Height

Supported PxPos sensors:

- PxPos Depth
- PxPos Temperature / Depth
- PxPos Remote
- PxPos Spread
- PxPos Height
- PxPos Temperature / Depth combi Remote

Supported transducer:

- Single split-beam transducer for TP
- Supplied with 20 m cable (outer diameter: close to 13 mm)
- Beamwidth: 40° (-3 dB), circular

