

AWS A20-F20 Research Platforms

AWS A20 RP is a research-oriented universal platform for applications based on Acoustic Technologies.

The platform allows working simultaneously with classical QCM sensors, High Fundamental Frequency QCM (HFFQCM) and SAW-Love Wave sensors. Appropriate cells are available for each sensor.

AWSensors provides customized solutions for cell modules in order to integrate other resonant technologies in the platform.



PRODUCT SPECIFICATIONS: AWS A20 RP

MAIN FEATURES

Operation Modes:	High Resolution Mode ¹
	Sweep mode
	Tracking Mode
Sensors Technologies:	QCM, HFFQCM, SAW-Love
Number of cell modules:	Up to 4 cell modules
Temperature control:	Integrated in the system
Remote control and monitoring interface via IP	
Dimensions HxWxD, weight:	32 x 75 x 45 cm, 25kg

¹ High Resolution Mode can operate at single frequency or at multi-harmonic frequencies. See "AWS Technology" brochure and related Application notes for additional information.

SENSOR CHARACTERIZATION SYSTEM

Frequency range:	5MHz-160MHz
Frequency resolution:	1mHz
Frequency stability:	± 0,05 ppm, over 0 to 50°C
Frequency accuracy:	± 0,1Hz
Max. sweeping time:	12 frequency points/second
Acq. time in HRES mode:	10 points/second
Phase resolution:	<0.001°
Amplitude resolution:	0,15mV

AWS A20 RP design allows a complete integration with AWS F20 flow module. This modular version provides a cost effective primary solution for research needs, while offering the extension to a complete flow-through system when needed.

PRODUCT SPECIFICATIONS: AWS F20 RP

MAIN FEATURES

Up to 4 flow-through plug and play modules.
Each module includes:
1 Syringe Pump
1 6-5 Distribution Valve (6 ports valve apart from the syringe port)
1 Injection valve for sample injection
1 Solenoid pump for precise sampling
Built-in thermostatic system for temperature control of liquids
Remote control and monitoring interface via IP
Dimensions HxWxD: 45 x 75 x 45 cm
Weight: 35kg with complete 4 module configuration

AWS F20 Flow-Through Platform

AWS F20 is a flow-through modular system, fully automated and compatible with the AWS 20 Research Platform.

AWS F20 allows programming a specific flow operation and sampling, or a manual control according to user needs.

AWS F20 includes an intuitive and powerful software interface module which allows programming the flow with the combination of the different devices of the modules included, according to the experiment.

Programs for different experiments can be recorded for ulterior use.

AWS F20 can be remotely controlled and monitored via IP interface.

AWS F20 is a fully controlled system with AWS A20 RP. This modular version provides a cost effective primary solution for researchers' needs, while offering the extension to a complete flow-through system when needed.



PRODUCT SPECIFICATIONS: AWS F20 RP

MAIN FEATURES

Up to 4 flow-through plug and play modules.

Each module includes:

1 Syringe Pump

1 6-5 Distribution Valve (5 ports valve apart from the syringe port)

1 Injection valve for sample injection

1 Solenoid pump for precise sampling

The 4 flow-modules can be operated in combination

Standard version of F20 works in combination with AWS 20¹

Built-in thermostatic system for temperature control of liquids

Remote control and monitoring interface via IP

Dimensions HxWxD: 45 x 75 x 45 cm

Weight: 35kg with complete 4 module configuration

¹Standard version of the AWS F20 flow-through module is prepared for working exclusively when connected to the AWS 20 Research Platform. AWSensors can provide, upon request, an alternative version of the AWS F20 module to work isolated from the AWS A20 RP, like an autonomous flow-through system, fully programmable and automatic.