Monitoring Systems

Sampling and Measuring Devices

 **MAR3**	**Multiparametric Probe for physical and chemical measurements in water** • Control unit with 4 MB memory • Up to 16 parameters • Measure programming • Sensors configuration • Data transfer	• Pressure • Temperature • Conductivity • Salinity/Density • Oxygen (% e mg/l) • pH • Redox	• Turbidity • Chlorophyll a • Cyanobacteria ○ Selective Ions • PAR • Quantometer • *other on request*
 **XMTG**	**Meteorological station** • Control unit with 4 MB memory • Up to 23 parameters • Measure programming • Sensors configuration • Data transfer • GPS integration	• Wind speed • Wind direction • Air Temperature • Humidity • Atmospheric pressure • Solar radiation	• Rain • Dew Point • Compass • *other on request* • GPS
 **XPRE**	**Automatic multi-level sampler with on board measures** • Control unit with 4 MB memory • MAR3 probe managing • Measure programming • Sensors configuration • Data transfer	• From 1 to 5 intakes • Measuring bath on board • External sampler or analyzer	
 **MAR3/W**	**Wave-meter/Current-meter** • Control unit with 4 MB memory • Up to 12 parameters • Measure programming • Sensors configuration • Data transfer	• Level sampling at 2 or 4 hz • Harmonics analysis and significant wave parameters calculation • Current measure with vectorial results • Optionally: wave direction	
 **XADP**	**Acoustic Doppler Current Meter** • Control unit with 4/16 MB • Connection with an ADP • Measure programming • Sensor configuration • Data transfer	• ADP stored data download • Harmonics analysis and significant wave parameters calculation • Current profile • Wave direction	

Sistemi di Monitoraggio

Devices Connection Scheme

Devices are functionally independent and are connected together with a special “bus” directly to the communication module to be operated by XMAR.

Each device is therefore programmable independently of the other and, with this architecture, it is possible, at any time, to add new devices without change, from a logical point of view, the already present devices on the measuring station.

Communication with XMAR is done typically via GSM modem; other solutions as RS232 / RS485 cable, Ethernet network, radio may possibly be considered.