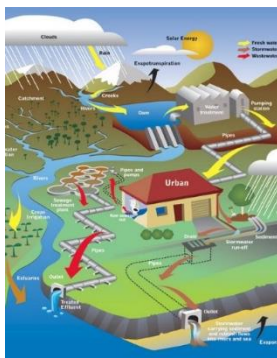
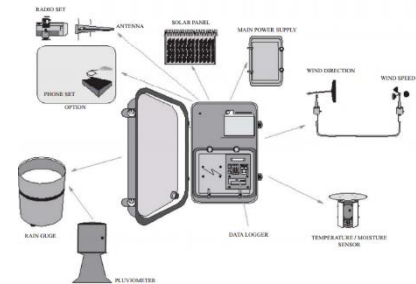


## Hydrometeorology

ECM supplies the high-quality systems for professional hydrological and meteorological applications:

- meteorological and climatological monitoring stations and its components
- rain-measuring stations
- hydrological stations
- miniature hydrologic systems assigned for placement in bore holes of underground water monitoring systems



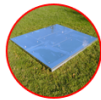
Our instruments are used:

- ✓ Flood prediction / warning
- ✓ Avalanche prediction / warning
- ✓ Research
- ✓ Dams / basins
- ✓ Div. Industry (mining, thermal power plants,...)
- ✓ Sewer systems
- ✓ Storm water systems
- ✓ Water Treatment plants
- ✓ Irrigation



### Snow Depth: USH-9

- ✓ Maintenance free ceramic Membrane
- ✓ Integrated Temp. compensation
- ✓ High power pulse for best results during snowfall



### Snow water equivalent (SWE): SSG – Snow scale

- ✓ No antifreeze liquid required
- ✓ Robust aluminum construction
- ✓ Range from 200 to 3000 mm SWE



### SWE + ice and water content: SPA– Snow pack analyzer

- ✓ Prediction of runoff
- ✓ No ice bridging effect
- ✓ SWE, snow-depth, snow density, liquid water and ice content



### Snow melting (Runoff): SMA-Snow melt analyzer

- ✓ Prediction of runoff
- ✓ Simple and easy installation
- ✓ SWE, snow density, liquid water and ice content close to the ground



### Monitor environment: AWS – Automatic Weather station

- ✓ Heavy duty weather station for high alpine areas
- ✓ More than 30 years experience
- ✓ Complete system out of one hand (Steel construction, sensors, software and know how)



### Ice risk detection: IDS 20 – Ice detection sensor

- ✓ Internal plausibility check (dew point/frost point, temp.)
- ✓ Easy integration in existing systems
- ✓ Different sensors for different applications (Airports, Antennas in mountain areas, power lines, wind turbines)



### Discharge mountain rivers: TQ - Tracer

- ✓ Mobile discharge measurement device
- ✓ No cross section needed
- ✓ Validation unit for already installed systems



### Discharge for rivers and channels: RQ-30 – 15m / 35m

- ✓ Stationary non contact discharge measurement device
- ✓ Maintenance free
- ✓ Easy installation, because outside of the water



### Discharge for rivers and channels: RP-30

- ✓ Mobile non contact discharge measurement device
- ✓ Use on Handrails, cable ways and on a Tripod
- ✓ Alternative to ADCP boat and propeller measurement when cross-section known.



### Water level: RL – 15m / 35m / 75m / 120m

- ✓ Non contact
- ✓ Maintenance free
- ✓ Independent of ambient conditions because of radar technology



### Flow in open channels and sewer systems:

#### SQ – 3m / 6m / 8m

- ✓ Stationary non contact discharge measurement device
- ✓ Maintenance free
- ✓ Easy installation, because outside of the water
- ✓ Mounting without entering manhole possible (under certain condition)
- ✓ Easy integration into existing control systems