Different Sensors in Healthcare and Agriculture

Healthcare Sensor

Biometric Sensors

Sensor Type	Parameter Measured
Temperature Sensor	Body temperature
Heart Rate Sensor	Pulse rate
Blood Pressure Sensor	Blood pressure
Respiration Sensor	Breathing rate
ECG Sensor	Electrical activity of the heart

Neurological Sensors

Sensor Type	Parameter Measured
EEG Sensor	Brain electrical activity
EMG Sensor	Muscle electrical activity
EOG Sensor	Eye movement

Chemical & Biochemical Sensors

Sensor Type	Parameter Measured
Glucose Sensor	Blood glucose level
pH Sensor	Acidity level
Lactate Sensor	Lactic acid concentration
Oxygen Sensor (SpO_2)	Blood oxygen saturation

Motion & Posture Sensors

Sensor Type	Parameter Measured
Accelerometer	Body movement
Gyroscope	Orientation and balance
Pressure Sensor	Force or load

Environmental & Wearable Sensors

Sensor Type	Parameter Measured
Proximity Sensor	Distance or presence
Gas Sensor	Concentration of gases
Wearable Sensor	Multiple physiological signals

Imaging & Diagnostic Sensors

Sensor Type	Parameter Measured
Ultrasound Sensor	Reflected sound waves
X-ray Detector	Radiation intensity
Infrared Sensor	Heat or infrared radiation

Agriculture Sensors

Soil Sensors

Sensor Type	Parameter Measured
Soil Moisture Sensor	Soil water content
Soil Temperature Sensor	Temperature of soil
Soil pH Sensor	Soil acidity or alkalinity
Electrical Conductivity Sensor	Soil salinity

Weather & Environmental Sensors

Sensor Type	Parameter Measured
Humidity Sensor	Air humidity
Temperature Sensor	Ambient temperature
Rainfall Sensor	Rainfall detection and rate
Wind Speed Sensor	Wind velocity

Crop & Growth Monitoring Sensors

Sensor Type	Parameter Measured
Light Sensor	Sunlight intensity
CO_2 Sensor	Carbon dioxide concentration
Chlorophyll Sensor	Leaf chlorophyll content
Nutrient Sensor	Soil nutrient concentration

Livestock & Farm Automation Sensors

Sensor Type	Parameter Measured
RFID Sensor	Animal identification
Motion Sensor	Animal activity/movement
Weight Sensor	Livestock weight monitoring
GPS Sensor	Location tracking