

# iSAP RF-2180

## Smart Probe



- ▶ Aggregation and tunneling of monitored network traffic to the iSID Threat Detection System for analysis
- ▶ Seven secure, passive and non-interfering Ethernet ports for incoming traffic
- ▶ Unidirectional transmission of mirrored network traffic through one-way link
- ▶ Compression of industrial protocols at 1:10 ratio
- ▶ Encrypted tunnel over the transport network
- ▶ Fit for harsh industrial environments

### Send all data traffic from remote sites to a central iSID Threat Detection System without taxing your network

The iSAP Smart Probe is a cost effective, distributed solution that offers a network-wide view of all connected devices and all network traffic, for threat detection at a central site.

Increasing network coverage by means of passing traffic from remote networks to a central IDS may create network overload problems, due to the large volumes of data sent to the central IDS. Radiflow's iSAP Smart Probe solves this problem. Installed at each remote site, it receives all LAN traffic from the local switch (using port mirroring), and filters out much of the irrelevant traffic data, leaving intact the SCADA traffic (e.g. ModBus data).

iSAP helps reduce costs by requiring only one iSAP device for each remote network site. Each iSAP securely connects to a centrally located iSID Threat Detection server, where corporate-wide network and device activity is analyzed.

To further reduce bandwidth consumption, the iSAP Smart Probe uses Radiflow's patented compression algorithm reaching ratios of up to 1:10. Once received at the central location, the iSID server is able to decompress the sent data packets with no loss of information. The user is able to set the amount of compression applied, if at all, to different data classes.

Radiflow iSAP is a versatile tool that can be deployed in any site, large and small, allowing for completely passive network coverage without modification of your existing infrastructure.

The Radiflow iSAP RF-2180 Smart Probe and the iSEG RF-3180 Secure Ruggedized Gateway are fabricated on identical hardware built by Radiflow and tested to the standards stated in the product specifications herein.

#### WHY RADIFLOW?

Radiflow is a recognized leader in industrial cybersecurity, offering dedicated solutions designed to meet the unique requirements of industrial infrastructures:

#### EXPERIENCE

Over 10 years' experience discovering and analyzing advanced persistent threats and targeted attacks, including attacks on critical and industrial infrastructure

#### EXPERTISE

Dedicated team of industrial cybersecurity experts who understand the colliding worlds of automation and security.

#### END-TO-END PORTFOLIO

Radiflow offers a holistic portfolio of services and technologies, including secure gateways, Industrial IDS and many more.

## SPECIFICATIONS

(Hardware specifications identical to those of the iSEG RF-3180 Secure Ruggedized Gateway)

### INTERFACES

2 x 100/1000 SFP ports  
8 x 10/100 Base-T ports

### LOCAL OPERATION

RS-232 Console Port  
Local USB Port for Emergency Boot

### PHYSICAL DESIGN

Mounting: DIN rail (optional wall mount)  
Enclosure: Rugged - IP 30 rated, fan-less  
Weight: 1.4Kg (DC), 1.8Kg (AC)  
Dimensions: (mm) 148h x 72w x 123d

### ENVIRONMENTAL PARAMETERS

Operating temperature: -40°C to 75°C  
Storage temperature: -40°C to 85°C  
Operating Humidity: 5%-90%

### STANDARDS

IEC 61850-3 - Electric Utility Substations  
IEEE1613 EMI - Electric Utility Substations  
EN50121-4 - Vibration and Shock resistance  
IEC 61000-4 - Surge Immunity

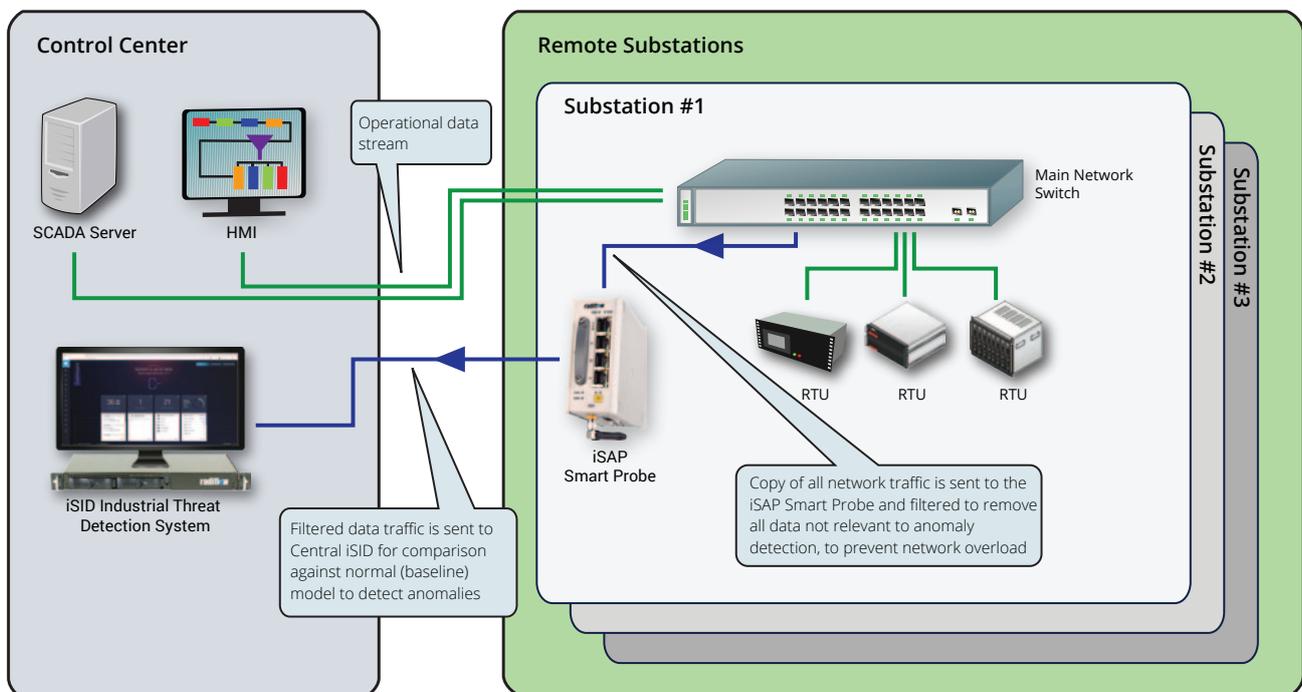
### INPUT POWER RANGES

24-24V DC (range: 18-32v DC)  
48-48V DC (range: 36-60v DC)  
110-230V AC (range: 90-250v AC)

### POWER CONSUMPTION

15W w/o PoE  
135W with PoE

## TYPICAL INSTALLATION



Deployment of a central iSID Industrial Threat Detection System using iSAP Smart Probes at remote sites