

Energy Efficiency Control Solution

● IAP FieldAgent for Distributed, Intelligent infrastructure management:

CPU:	ARM 9 Processor.
Co-processor:	Data Co-processor for hardware AES-128 data encryption.
DC power input:	5Vdc, 9-40Vdc, USB, PV panel, Lithium battery High power availability when 2 power inputs are used.
Radios modems:	2 radio modems on PCIE extension cards: GSM, HSPDA, LTE, LORA, SIGFOX, ZIGBEE, IEEE 802.11.
Serial ports:	3 RS232, 1 RS485/MODBUS, 1 MDB (RS232), 1 Console.
USB:	One on housing, +2 with PCIE extension cards (optional).
LAN:	10/100 Mbs.
Temperature Sensors:	Max. 64 sensors 0.5 °C accuracy from -10 °C to +85 °C.
Digital in/outputs:	10, for infrastructure control (control of valves, pumps, etc.)
Analog inputs:	4 conventional + 1 High speed for signal processing.
Antennas:	2 for radio, 1 for GPS.
Extensions:	1 40 pin extension connector, 2 PCIE extension sockets.
Enclosure:	IP66, optional ATEX.

● Water Flow meters:

Type:	Ultrasonic, non-intrusive, maintenance-free.
Pipe size:	20 mm – 720 mm.
Pipe material:	Steel, Stainless steel, cast iron, PVC, cement pipe.
Transducers:	Clamp-on, IP68.
Measurement range:	-32 .. +32 m/s.

Type:	Mechanic, intrusive.
Units:	A maximum of 3 units can be installed.
Pipe size:	¾ Inch, 1 Inch
Measurement range:	2-60 l/min, 5-100 l/min,

● IAP power meter:

Channels:	9 channels, single or 3 phase.
CT Types:	Split core, Hanging, Clip-on.
Parameters:	Basic: VLL, VLN, Amps, Frequency Power: W, PF, VA, cos phi. Energy: Wh, Load Hours.

● IAP IO-extender:

Input channels:	16. 0 – 50Vdc. ESD protection.
Output channels:	8 with relay + 8 with open collector.

