

# **OPTO**

## **Controls (Pty) Ltd**

### **Opto Controls Remote Monitoring Solution**

It has become imperative to constantly monitor and detect any anomalies in offsite work. Although, several surveillance systems are being deployed by companies to manage their operations, there is still a lack of efficient, robust, scalable and remote systems to control production, potentially lowering business and personnel safety risks.

Remote access infrastructure allows rapid and cost effective methods to deal with troubleshooting and reconfiguring assets without time consuming travel to the equipment site.

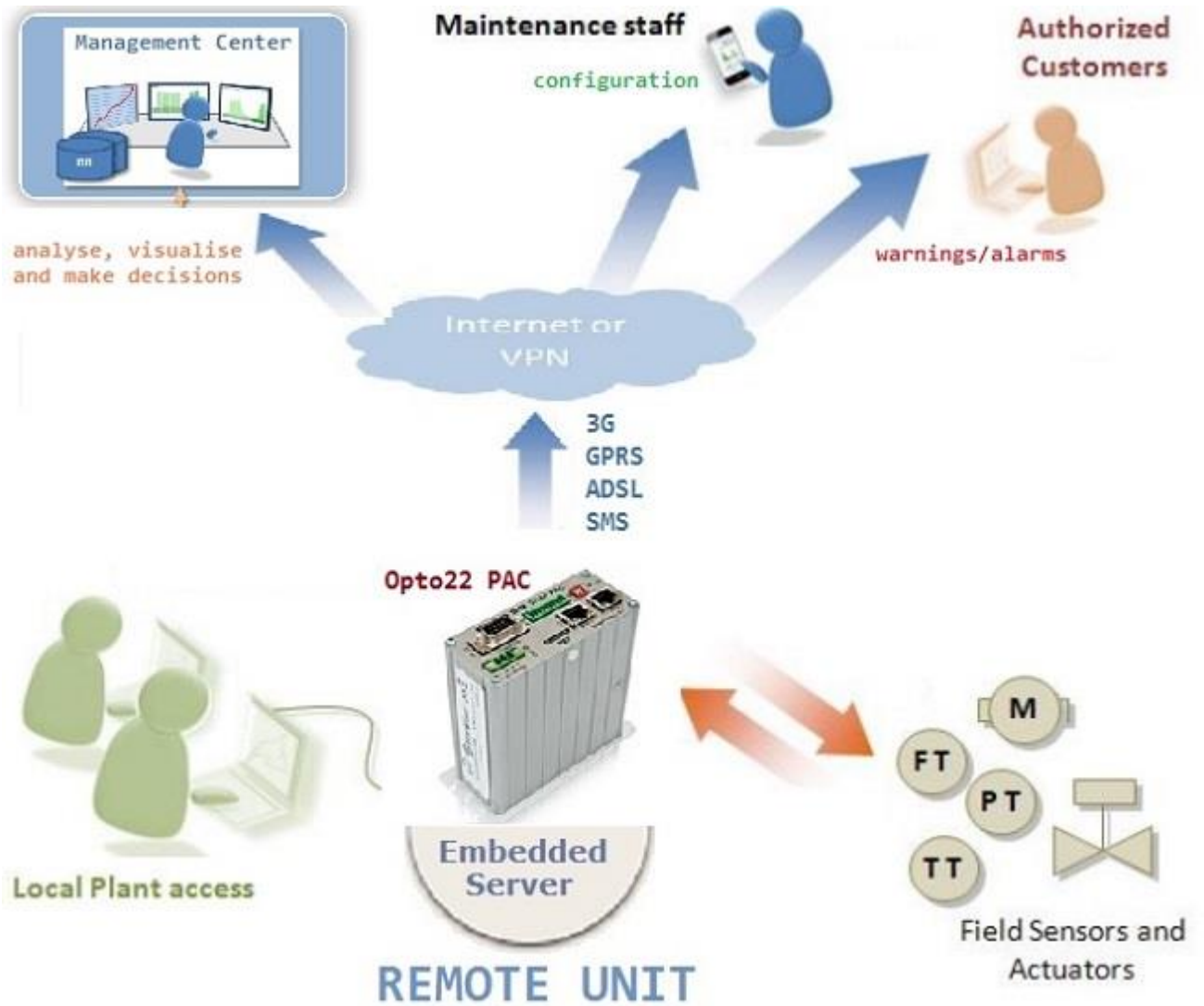
#### **Our Solution**

At the core of our remote monitoring solution is the URT2800 , a remote telemetry unit (RTU), based on the industry standard PAC hardware from Opto22, and combined with embedded web interface application software.

Its main functions are:

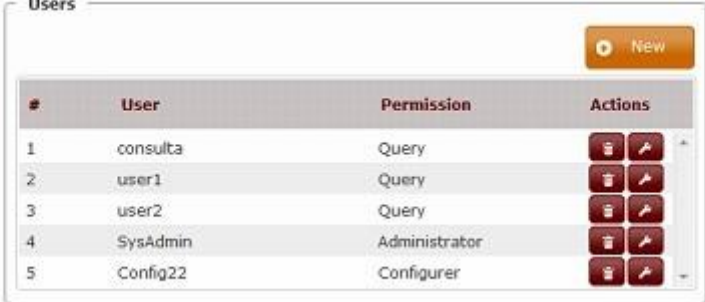
- Simplify remote connectivity and data collection from remote assets using a single concentrator
- Provide alerts and alarms of any abnormal conditions in connected I/O and intelligent devices
- Allow easy on site installation and remote maintenance by non specialized staff

## System Architecture



The URT2800 includes an embedded web interface providing a clear and easy to use interface for every level of user, to configure its functionality and parameters, including:

## User access control



The screenshot displays a web interface titled "Users" with a "New" button in the top right corner. Below the button is a table with the following data:

#	User	Permission	Actions
1	consulta	Query	[Delete] [Edit]
2	user1	Query	[Delete] [Edit]
3	user2	Query	[Delete] [Edit]
4	SysAdmin	Administrator	[Delete] [Edit]
5	Config22	Configurer	[Delete] [Edit]

## Variable configuration

**Config. Variable - Temperature** ✕

**Variable:**

**Name:**

**Type:**  ▾

**Module:**

**Channel:**

**Memory Map:**

**Unit:**  ▾

**Decimal digits:**

**Factor:**

**Offset:**

**H/I:**  History  Real time

**Enabled:**  Yes  No

## Historical Trending



## Configuring Alarms

**Config. Alarm - Fuel\_Level** ✕

**Límites (Gal)**

**HiHi:**

**Hi:**

**Lo:**

**LoLo:**

**Deadband:**

Name	Email	SMS
Michael Jackson	<input type="checkbox"/>	<input type="checkbox"/>
Maintenance 24/7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Compressor Callout	<input type="checkbox"/>	<input type="checkbox"/>
Maintenance Dpt Email	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Enable  Disable

Save  Cancel

**Config. Alarm - Emergency** ✕

**Alarm when**

On  Off

Name	Email	SMS
Michael Jackson	<input type="checkbox"/>	<input type="checkbox"/>
Maintenance 24/7	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Compressor Callout	<input type="checkbox"/>	<input type="checkbox"/>
Maintenance Dpt Email	<input type="checkbox"/>	<input type="checkbox"/>

Enable  Disable

Save  Cancel

## Configuring Actions

**New action** ✕

**Description**

Freezer Door Left Open

**Triggers**

Variable		Value	
9 - Temperature	>	5 °C	<span>+</span> <span>−</span>
2 - Freezer_Door	=	On	<span>+</span> <span>−</span>

**Reaction**

Variable		Value
7 - Alarm	=	On

Enabled  Disabled

Save ✕ Cancel

## Configuring Alerts

**E-mail Configuration** ✕

**Server**

**Port**

**Protocol:**  ▼

**Username**

**Password**

**Repeat Password**