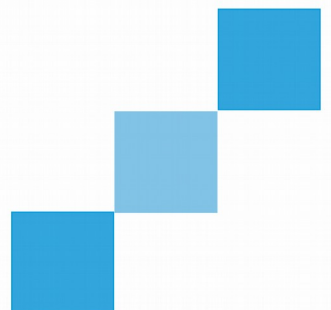


Local Display Adapter

This document defines the case study of Local Display Adapter



Case Study – Local Display Adapter

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Department : Hardware and software
Contact Details : CASCADEMIC Solutions Pvt. Ltd.
1525/58, 2nd Floor, 28th Main, South End 'B' Cross,
9th Block, Jayanagar, Bangalore, India. Pin: 560069
Email: info@cascademic.com, Phone: +91 80 26583333

Document Owner(s)	Project Role	Signature
Prepared By:	Shabana M	
Approved By:	C. Prabhu	
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Version Control

Version	Date	Author	Change Description



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1 Customer

Company name: Anand Water Meter Manufacturing Co. Pvt. Ltd. (AWM), Manufacturer of “Anand Asahi” brand water meters.

Location: Kochi, Kerala.

2 Customer Need

Generally, water meters will be installed in the place where accessibility is very less. So, the service providers faced it very difficult to note the meter reading where the water meters are fixed at the duct, under ground etc.

The following are the requirement from the customer,

- The readings must be easily available to the user or the service provider.
- User friendly device.
- Compact device
- Accurate meter readings

3 Local Display Adapter



Since, the customer is the manufacturer of mechanical water meters, in which one of the type is pulse output meter.

This pulse output meter has a reed switch and a magnet on the dial, and when the magnet comes in contact with the dial the reed switch will close which results in pulse.

The other end of the reed switch is connected to the local display adapter and the length of this wire can be 10 meters.

So, the user can place the local display adapter anywhere accessible

3.1 Solution

The device is user friendly and it has the following features.

- The Local Display adapter and a 16x2 LCD display, in which the first row is having the water consumed data and the second row has the date and time.
- There are 5 buttons to configure the data, time, LCD on/off, initial meter data and to reset the meter data. The reset button will not be easily accessible to the end user.
- The local display adapter is as accurate as the mechanical water meter.
- The adapter and compact and it is enclosed in an IP66 enclosure. Which ensures to be dust and water proof.