TECHNOLOG

The Application of Technology for Water Network Management

Technology for Water Network Management 2

Technology is an aid to:

- Controlling critical sites such as reservoirs, trunk mains and chlorination plants
- Remotely monitoring huge geographical areas with massive lengths of pipe
- Quantifying leakage
- Identifying zones for leak repair, pressure management and pipe replacement
- Locating leaks

BUT, technology cannot do this alone. To achieve the benefits it must be:

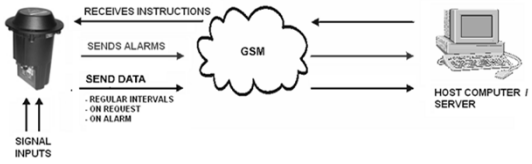
- Correctly applied
- Correctly installed and commissioned
- Maintained to achieve the benefits in the long-term

Cello GSM/GPRS Data Loggers 3

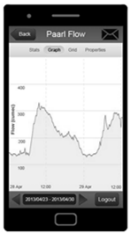
- Revolutionised the way in which networks are monitored
- Thousands of km of pipework remotely monitored every day from the office
- Alarms indicate abnormal conditions such as bursts or low pressure
- Burst awareness time reduced to minutes

- 6 year battery life
- Designed for use in flooded chambers
- Proven technology - over 300,000 supplied world-wide
- Zednet data platform for all your data on the web

Cello GSM/GPRS Data Loggers 4



Zednet Software 5

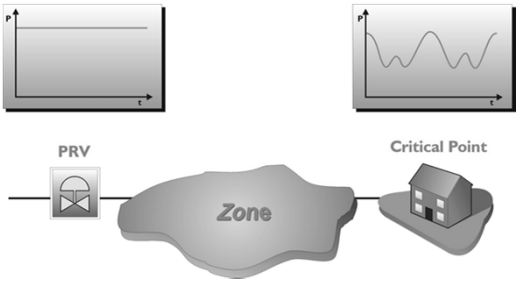


Regulo Electronic PRV Controllers 6

- 1993 technology transfer from the gas industry
- Autowat PRV Controller became the 'water version' of Autogas
- 3rd generation of PRV controller use pneumatic control because:
  - air is compressible
  - water is corrosive and debris blocks solenoid valves and filters
- Integrated GSM/GPRS communications for closed-loop control with remote monitoring

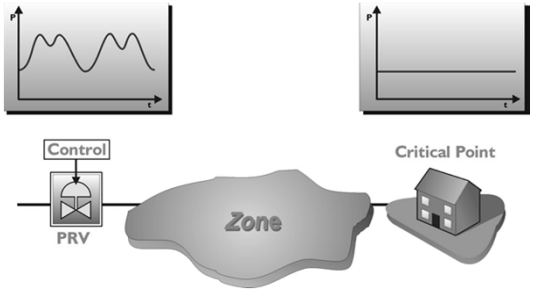
Electronic PRV Controllers 7

- Standard fixed outlet PRV



Electronic PRV Controllers 8

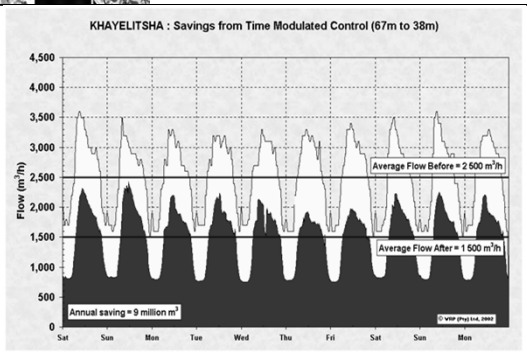
- PRV with pressure modulation



Khayelitsha Pressure Control Project 9

- Khayelitsha was pressure control on a scale that hadn't been seen before
- A powerful combination of world class design and implementation combined with state of the art technology delivering savings of 24,000 m3/day

Khayelitsha Pressure Control Project 10



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Thank You