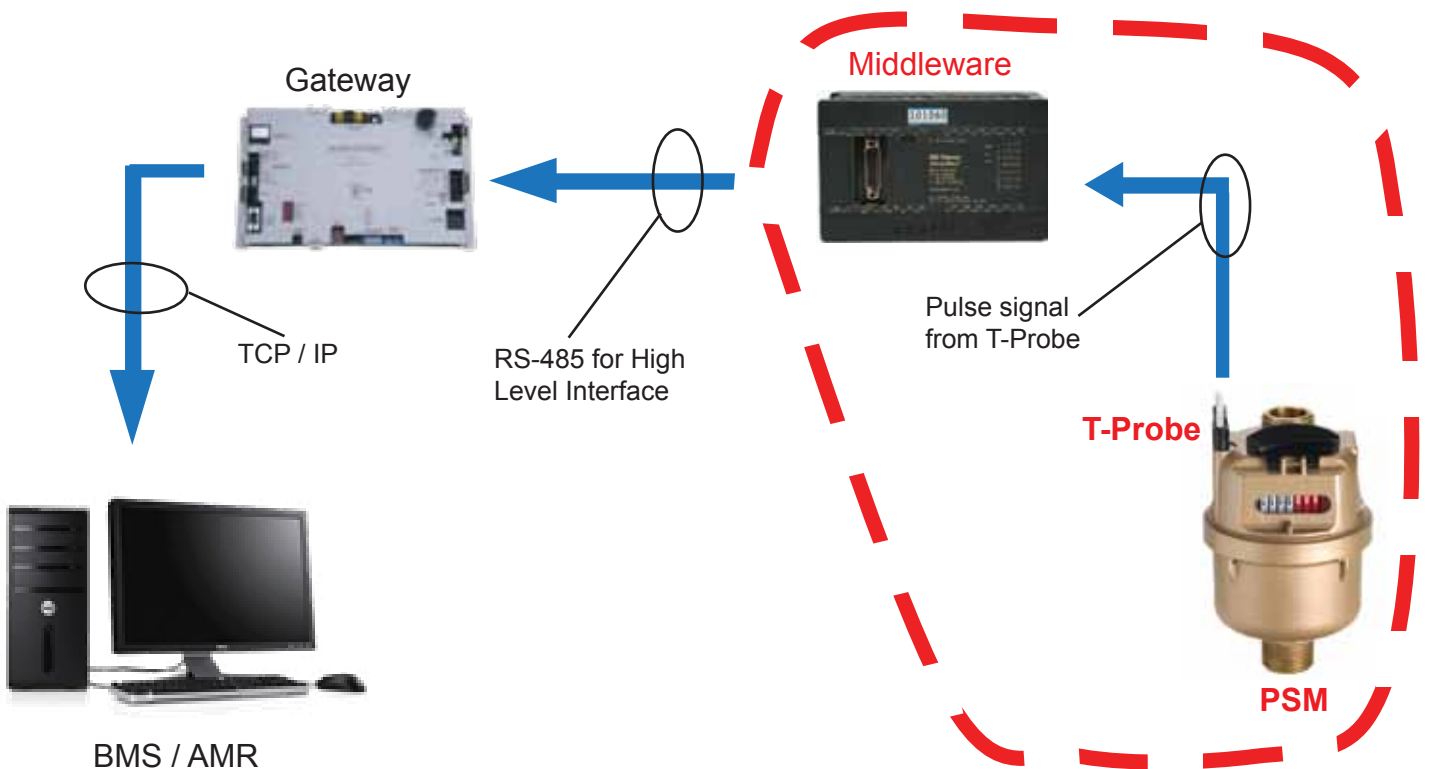
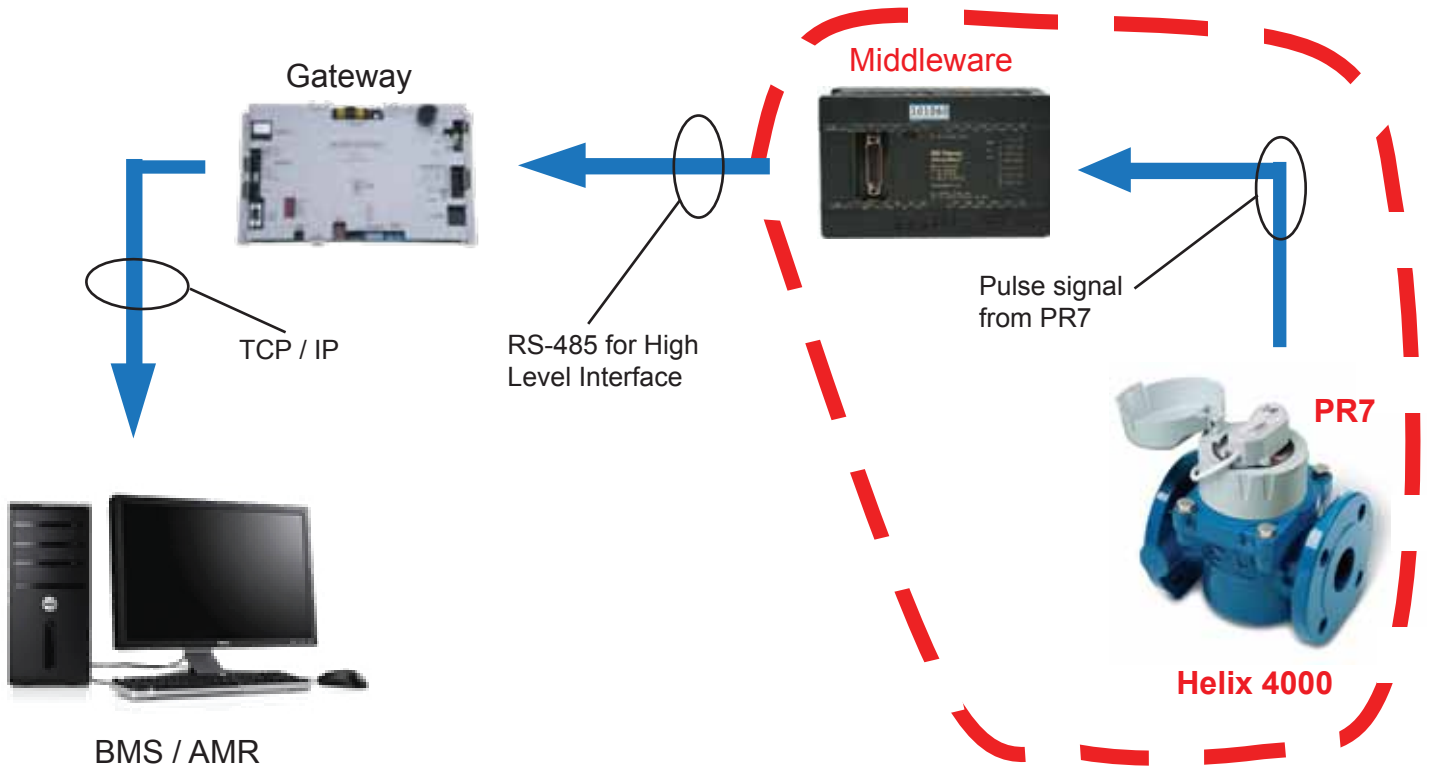




## Middleware Overview:

- GKM Middleware is an interface hardware module to communicate mechanical meter with BMS/BAS telemetry systems.
- Middleware reads pulse from PSM/Helix meter and convert it to High Level Interface data which universally could be interpreted by any BMS/BAS or AMR telemetry system.



# Middleware Connection

Up to **8 PSM** meters can be connected to  
**PSM Middleware**

UP to **3 Helix** meters can be connected to  
**Helix Middleware**



**PSM Middleware**



**Helix Middleware**

**O  
R**



**Middleware**



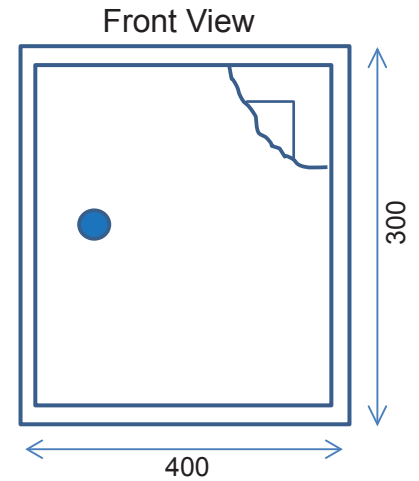
**Middleware**

## **Remark:**

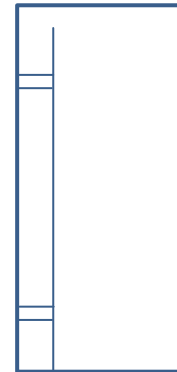
- PR7 is provided with only 5 meter cable
- T-Probe is provided with 5 meter cable. 30 meter extended length version is available upon request
- Maximum cable length from Middleware to BMS/AMR station or concentrator is 100 meter
- Hot water meter is also available upon request

# Technical Specification:

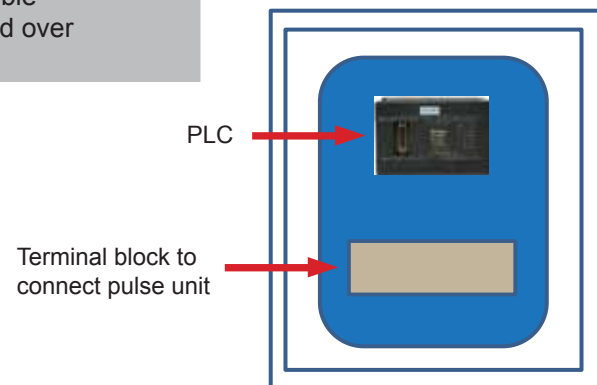
Power Supply	AC 240v Power Supply
	DC 24v for DC input
Input	3 connection max for PR7
	8 connection max for T-Probe
Output	Modbus RTU Connection
	Baud rate = 9600
	Parity = None
	Stop Bits = 1
Output Data	Primary flow (forward and reverse)
	Secondary flow (forward flow only-PR7 only)
	Flow Direction (PR7 only)
	Burst Alarm
	Leak Alarm
	Tamper Alarm
Data Retention	Max 2 months
Panel Enclosure	Wall mounted panel with lock
	4x PG11 cable glands
	IP 55
Output Resolution	Helix DN50-DN100 = 10/100 litre/pulse
	Helix DN 150 : 100/1000 litre/pulse
	PSM : 5 liter/pulse
Warranty	Limited warranty for 1 year on Middleware, Pulse Unit and Meter. This warranty cover any manufacturing defect which exclude any event of tampering, unsuitable environment and application and over voltage.



Side View



Inside View



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Continuous improvement is one of our company policy. George Kent (Malaysia) Berhad reserved the right to modify the specifications without prior notice.