

# meters uk Ltd

Utility Meter Manufacturers

## HCM4

### Thermal Energy Calculating Meter For The Digital Age

#### Pulse Output Data

The pulse collection and transmission circuits have been designed with historical and practical experience, and are designed to create high reliability for a low cost, within known engineering principles.

All versions of HCM4's arrive complete with a pulse output facility at no additional cost.

#### Major unique features :-

**'Clamp Circuit' specifically designed to improve operational life in 'difficult operational areas' – dissipates power surges above 65vdc**

**Pulse Smoothing – improves the outward pulse signal, to increasing reliability**

#### Pulse Data

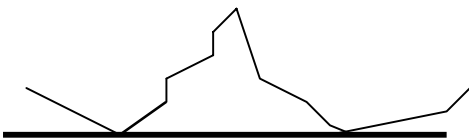
Maximum Operating Voltage 45vdc  
Clamp circuit interjection 65vdc  
500watt Power Dissipation Limit - Max Current 10amp  
Reverse Connection Protection 6vdc  
Pulse Width 50 ms  
DC Forward Current 0.6v  
Rise And Fall Max 18 micro Secs  
Isolation Resistance 5 x 10/10 ohms  
Isolation Voltage 5 kV

Collector Remitter Saturation Voltage 0.4volts  
Operating temperature range -55c to 120c

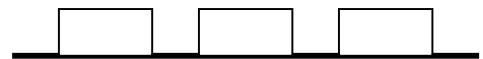
#### Pulse Smoothing

HCM4's have a unique software, that smoothes out the pulses received making them into square wave output pulses. This greatly improves reading reliability for Building Management Systems and Automatic Meter Reading Systems

Typical Inward Pulse (Reed Switch)



Outward Square Wave Pulse HCM4



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