



# DVS74

## Three Phase Four Wire Smart Meter

### Standards

| Item | Standard    | Requirement/description  |
|------|-------------|--|
| 1    | IEC62052-11 | General requirement and test condition of AC measurement device                  |
| 2    | IEC62053-21 | AC static active energy meter (class 1 and 2)                                    |
| 3    | IEC62053-23 | AC static reactive energy meter (class 2 and 3)                                  |
| 4    | IEC62056-21 | Local data exchange for meter reading, tariff and load control                   |
| 5    | IEC62056-42 | Physical layer for meter reading, tariff and load control                        |
| 6    | IEC62059-41 | Electricity metering equipment - Dependability - Part 41: Reliability prediction |
| 7    | IEC62056-47 | COSEM transport layers for IP networks   |
| 8    | IEC62056-53 | COSEM application layer  |
| 9    | IEC62056-61 | Application layer data exchange chapter 61: OBIS code system                     |
| 10   | IEC62056-46 | Data link layer for meter reading, tariff and load control                       |
| 11   | IEC62056-62 | Interface classes for meter reading, tariff and load control                     |
| 12   | IEC62053-31 | Pulse Output Devices for Electromechanical and Electronic Meters                 |

### Information

|                           |  |
|---------------------------|--|
| Type                      | DVS74  |
| Voltage                   | 3x230/400V   |
| Frequency                 | 50Hz $\pm$ 2%  |
| Current                   | 10(100)A   |
| Accuracy                  | Active CI 1.0<br>Reactive CI 2.0   |
| Communication Interface   | Optical port, RS232 port, GPRS, RF   |
| Starting Current          | 0.4%I <sub>b</sub>   |
| Meter Constant of LED     | 1000 imp/kWh, 1000 imp/kvarh   |
| Temperature Range         | Typical operation: from -25°C to +70°C<br>Storage: from -40°C to +80°C   |
| Typical Power Consumption | Voltage circuit apparent power at Un: Less than 2W/10VA<br>Current circuit apparent power at Ib: Less than 2.5VA |
| LCD Life Time             | More than 15 years   |
| Battery                   | Replaceable, with more than 15 years' life time  |
| RTC accuracy              | Less than $\pm$ 0.5 sec/day at 23 °C;<br>The variation of accuracy with temperature is less than 0.15s/°C/day    |
| Weight of Meter           | Approximately 1.5kg  |
| Dimension                 | 290.1mm (L) $\times$ 178mm (W) $\times$ 75mm (H)   |



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### Function Features

- Active and reactive energy calculation
- Active and reactive demand calculation
- Consumption and cumulate energy register
- Cumulate maximum demand calculation
- Relay control
- TOU, 8 Tarrif with 10 seasons
- Load profile
- Up to 12 months' history energy and demand data

### Instantaneous Parameter Measurements

- Voltage
- Current
- Power factor
- Frequency
- Active power
- Reactive power
- Phase angle

### Backlight

The backlight will be on for 20 seconds when pressing button, it's useful to read meter in the dark condition. The time of backlight can be configurable.

### LCD Display (with Backlight)

LCD displays up to 8 digits, which supports four display modes:

- AUTO mode
- ALT mode
- Test mode
- Power down mode

### Event log

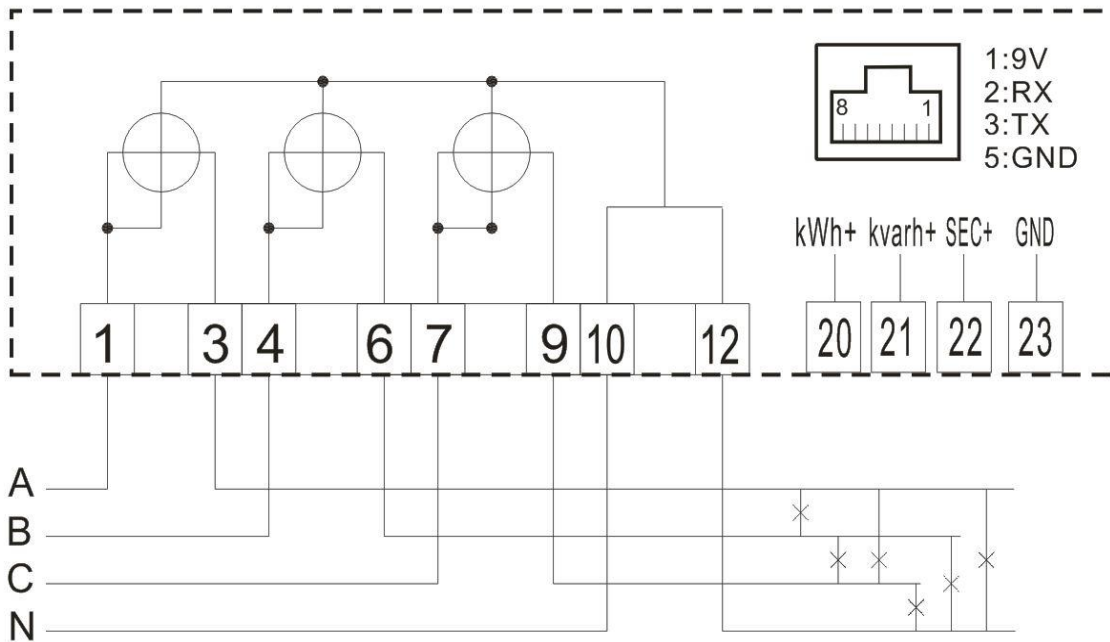
- Magnetic detection
- Reverse current detection
- Over current record
- Over and under voltage record
- Meter cover/Terminal cover open detection
- Power outage detection and etc.



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### Connection Diagram



### Overall Dimension (mm)

