






| Classification | Single Phase Direct Connection | | 3 Phase Direct Connection | 3 Phase CT Connection | 3 Phase Dual Connection | |
|----------------|--------------------------------|------------------------------|------------------------------|-------------------------------|------------------------------|----------------------------|
| Model | COUNTIS P04 | COUNTIS P14 | COUNTIS P34 | COUNTIS P44 | EM24 NMI | EM270 / EM271 ¹ |
| | 45A, RS485, 2x Pulse Output | 100A, RS485, 2x Pulse Output | 100A, RS485, 2x Pulse Output | 5A CT, RS485, 2x Pulse Output | NMI, RS485, 2x Digital Input | 2x 3 Phase Meter |

| Specifications |  |  |  |  |  |  |
|---------------------------------|---|---|--|---|---|---|
| Meter with RS485 modbus RTU | 48505004 | 48505014 | 48505034 | 48505044 | EM24DINAV53DISX26 | EM27072DMV53X2SX |
| Energy accuracy (IEC 62053-21) | Class 1 | Class 1 | Class 1 | Class 0.5s | Class 1 | Class 1 |
| Maximum demand power | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Four quadrant monitoring | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ |
| Power factor | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DIN rail mount | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Panel mount | ✗ | ✗ | ✗ | ✗ | With 4DIN96ADAPTER | With EM20096ADAPTER |
| Suited to retrofit applications | ✗ | ✗ | ✗ | With NHP Split Core CTs | With NHP Split Core CTs | EM27172DMV53X2SX |

Energy Management Selection Chart

Australia
nhp.com.au
1300 647 647

New Zealand
nhpz.co.nz
0800 647 647



1 Solid core current transformers to suit EM270 - TCD1X160200CMX (160A primary); TCD2X250200CMX (250A primary); TCD3X630200CMX (630A primary)
Split core current transformers to suit EM271 - TCD1M10080CMX (100A primary); TCD2M20080CMX (200A primary); TCD3M40080CMX (400A primary)

2 Communication module part number needs to be ordered along with base multi-function meter.
Example: Want A-30 meter with RS485 Modbus RTU = 48250403 and 48250092

3 Only available with ITR SMART Split-core CTs

4 Only available with the Ethernet version of the range

5 Individual harmonics up to the 127th available on M8 version

View our online product selector for Current Transformers



| Classification | 3 Phase Advanced Multi-Function Meters | | | Power Quality Analysers | | | Energy Management Systems | | |
|----------------|--|-------------|-------------|-------------------------|---------------------------|---------------------------|---------------------------|--------------|-----------------|
| Model | DIRIS A-10 | DIRIS A-30 | DIRIS A-40 | DIRIS A-200 | DIRIS Q-800 | PM5000 | Digiware | SMART eBox | N'View |
| | DIN-rail | Panel mount | Panel mount | Panel mount (96x96) | Advanced PQA with display | Premium PQA (1426 Series) | Modular EMS | Enclosed EMS | Cloud based EMS |

| Specifications |  |  |  |  |  |  |
|--------------------------------|---|---|--|--|--|---|
| Base meter, no communication | 48250400 | 48250403 | ✗ | ✗ | ✗ | Please contact us for information |
| Meter with RS485 Modbus RTU | 48250401 | Base meter + add-on module ² | 48250500 | 48250604 | 48260100 | ✗ |
| Meter with Ethernet | ✗ | Base meter + add-on module ² | 48250501 | 48250604 | 48260100 | ✗ |
| Energy accuracy (IEC 62053-21) | Class 0.5s | Class 0.5s | Class 0.2s | Class 0.1s | Class 0.2s | Class 0.2s |
| Maximum demand | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Four quadrant monitoring | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Power factor | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Total harmonic distortion | THDI & THDV → 51st Harmonic | THDI & THDV → 51st Harmonic | THDI & THDV → 63rd Harmonic | THDI & THDV → 63rd Harmonic | THDI & THDV → 63rd Harmonic | THDI & THDV → 127th Harmonic ⁵ |
| Other | | | | Waveform capture and display Sags, swells and dips detection Multi tariff management | Waveform capture and display Sags, swells and dips detection IEC 61000-4-30 PQ reporting | Waveform Capture Sags, swells and dips detection IEC 61000-4-30 PQ reporting |
| Add-on communication module | | | | | | |
| RS485 Modbus RTU | Native | 48250092 | Native | Native | Native | At request |
| Modbus TCP/IP | ✗ | 48250203 | Native | Native | Native | Native |
| BACnet IP | ✗ | ✗ | Native | Native | ✗ | ✗ |
| Memory | ✗ | 48250097 | Native | Native | Native | Native |
| Digital Input / Output | Native | 48250094 | 3 / 2 | 3 / 1 | ✗ | ✗ |
| Pulse Input / Output | ✗ / Native | ✗ / 48250090 | ✗ | ✗ | ✗ | ✗ |
| Quick Connect CTs | ✗ | ✗ | ✓ | ✓ | ✗ | ✗ |



| Please contact NHP for more information on these solutions | | |
|---|--|--|
| Multi circuit monitoring system with highly flexible installation options | Customisable all-in-one EMS solution accessible through browser, smart phone or tablet | Real-time data analysis of energy consumption |
| Unique accuracy class of 0.5 | Guaranteed compliance to NCC Section J9D3 (3) | Customisable dashboard |
| Fast RJ45 interconnection of modules | Compatible with wide range of energy meters and power distribution products - connect up to 64 devices | Compatible with multiple communication protocols |
| All-in-one solution with energy and power monitoring | Easy to install and upload live data to cloudplatforms such as Carlo Gavazzi EM ² , Microsoft Azure and AWS | Fault detection and diagnostics |
| Auto-detection of wiring errors | Manufactured and commissioned by NHP | Data protection and security regulations compliant |
| Realtime remote access | | Detailed alarm notification with live status |