Measuring Transducers MT 4xx

- Multi-and single-functional
- Class 0.5
- Wide area of use

Energy sector

Iskra®

Programmable Multifunctional Transducer MT 440

Key features

- Power accuracy class 0.5 (EN 60 688),
- Up to four I/O modules (analogue out, pulse out, alarm out, general purpose digital out)
- Voltage and current auto range measurements up to 600V$_{\perp}$, 12.5A
- Universal wide auxiliary power supply range 24 – 300 Vdc, 40 – 276 Vac
- Sophisticated analogue out; 2 voltage and 4 current ranges, non-linear characteristics
- Simple USB setting without auxiliary power supply
- Certificate for marine application

For whom

For electricity distribution and energy production companies, utilities, dwellings, energy management solution providers, industry, business buildings, marine, designers of small power stations, panel builders, etc.

Narrow measuring transducers MT 4xx

Programmable AC voltage transducer MT 416

- RMS AC voltage measurements
- Voltage auto range measurements up to 600 V_{L-N}
- Frequency measurement range 16 - 400 Hz
- AC or wide auxiliary power supply range 24 - 300 V DC, 40 - 276 V AC
- Accuracy class 0.5 (EN 60688)
- Serial (RS232 or RS485) communication
- Sophisticated analogue output; 2 voltage and 4 current ranges, non-linear characteristics
- Simple USB setting without auxiliary power supply

Programmable AC current transducer MT 418

- RMS AC current measurements
- Voltage auto range measurements up to 12 A
- Frequency measurement range 16 - 400 Hz
- AC or wide auxiliary power supply range 24 - 300 V DC, 40 - 276 V AC
- Accuracy class 0.5 (EN 60688)
- Serial (RS232 or RS485) communication
- Sophisticated analogue output; 2 voltage and 4 current ranges, non-linear characteristics
- Simple USB setting without auxiliary power supply

Narrow measuring transducers MT 4xx

AC voltage self powered measuring transducer MT 406

- Sinusoidal AC voltage measurements
- Voltage range measurements up to 500 VL-N
- Galvanic insulation between input and output
- Accuracy class 0.5 (EN 60688)
- Self powered

AC current self powered measuring transducer MT 408

- Sinusoidal AC current measurements
- Current range measurements up to 6A
- Galvanic insulation between input and output
- Accuracy class 0.5 (EN 60688)
- Self powered

Features of Programmable Multifunctional Transducer MT 440

Features

- Measurements of instantaneous values of more than 50 quantities (V, A, kW, kVA, kvar, kWh, kvarh, PF, Hz, MD thermal, THD, etc)
- Power accuracy class 0.5
- 16 adjustable alarms
- Input frequency: 50/60 Hz, 400 Hz
- Serial communication (RS232 or RS485 up to 115,200 bit/s) and USB 2.0
- MODBUS RTU communication protocol
- Up to 4 I/O (analogue outputs, alarm outputs, pulse outputs, general purpose relay output, general purpose solid-state output)
- Single wide auxiliary power supply range 24 –300 Vdc, 40 – 276 Vac or fixed AC: 110V, 230V, 400V
- Automatic range of current and voltage (max. 12.5 A and 600 VL-N)
- Housing for DIN rail mounting
- User-friendly setting software, MiQen
- Integrates into MiSMART software

Basic accuracy under reference conditions

Measurand	Accuracy (± % of range)	
Current Rms	0.3	0.2 [1]
Voltage Rms P-N and P-P	0.3	0.2 [1]
Power (P, Q, S)	0.5	0.3 [1]
Power factor (PF)	0.2°	
Frequency (f)	10 mHz	2 mHz [1]
P-N and P-P angle	0.2	
THD (U), THD (I) (0 ... 400 %)	0.5	
Active energy	Class 1	
Reactive energy	Class 2	

[1] On communication

Communication

Configuration	COM
WO	USB
RS232	RS232 + USB
RS485	RS485 + USB

INPUT / OUTPUT MODULES

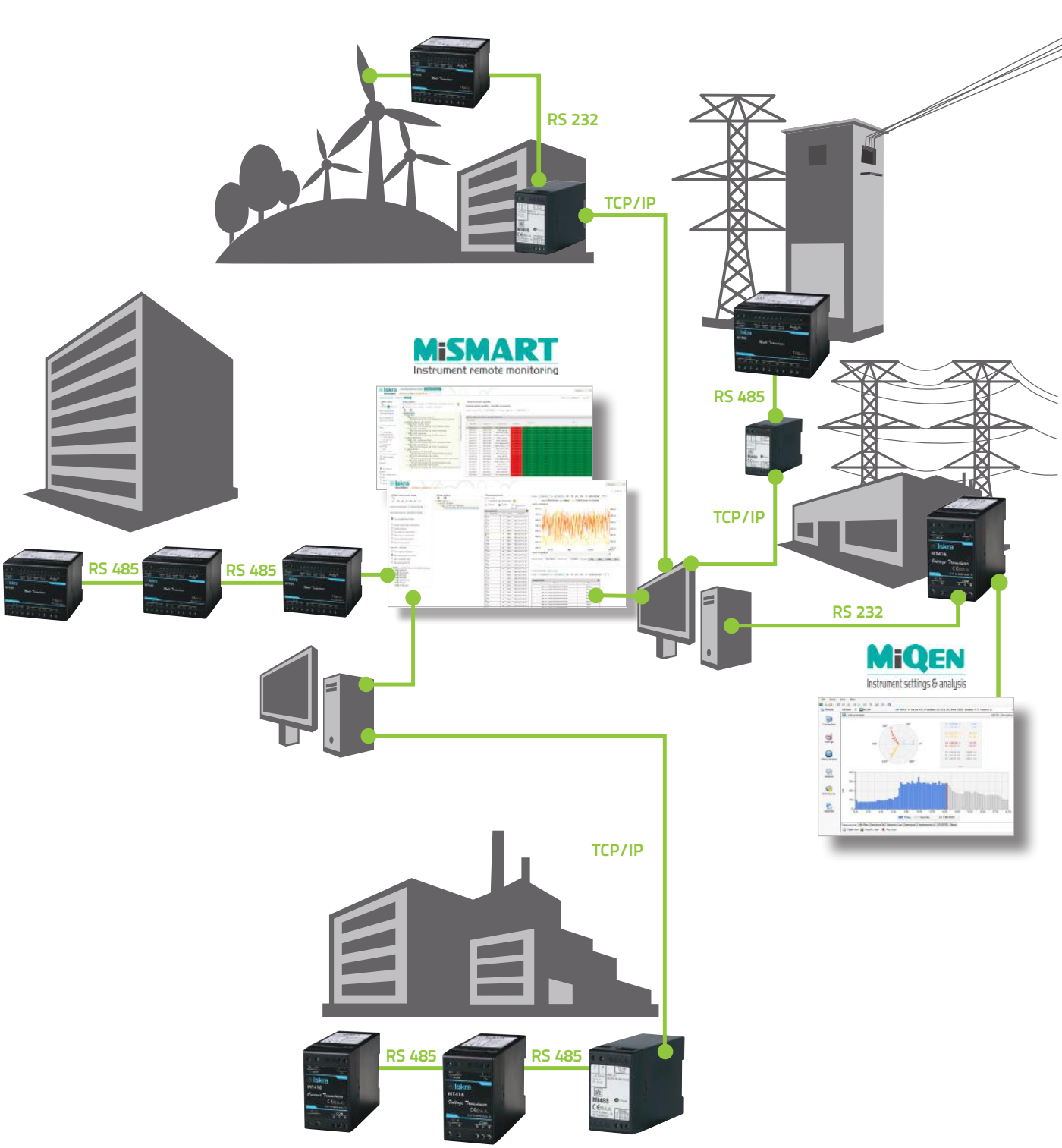
Output		
Analogue output	up to 4	any I/O
Fast analogue output	up to 4	any I/O
Electromechanical relay output	up to 4	any I/O
Solid-state relay output	up to 4	any I/O

Electromechanical or solid-state relay output can be used as:

- Alarm output
- Pulse output
- General purpose digital output

Possible Use

Applications



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