



REMOTE DISPLAY iRD500

- **REMOTE APPLICATION** FOR MEASURING TRANSDUCERS iMT560, iMT550, iMT540.
- NETWORK CONNECTION FOR UP TO **32 TRANSDUCERS**.
- **RS485 COMMUNICATION**.
- UNIVERSAL POWER SUPPLY **48-276V AC, 20-300V DC**.
- MULTILINGUAL SUPPORT.

FEATURES

- Measurements of instantaneous values of more than 140 quantities (U, I, P, Q, S, PF, PA, f, φ , THD, MD, energy, energy cost by tariffs, etc.).
- Remote application for measuring transducers iMT560, iMT550, iMT540, iMT440, iMT416, iMT418.
- Remote application for measuring centres iMC7xx, MC6xx, iMC3x0.
- Remote application for energy meters IE38
- Network connection for up to 32 transducers.
- RS485 communication.
- Universal power supply 48-276V AC, 20-300V DC.
- Graphical LCD 128 x 64 dots.
- Multilingual support.

APPLICATION

Remote display is very useful for a quick look-up to all measured parameters or to set up the iMT5xx measuring transducers without the PC. Navigation keys and graphical LCD display enable remote application and remote display settings. By choosing different RD500 target communication addresses it is possible to track measurements and change settings for up to 32 iMT5xx measuring transducers.



TECHNICAL DATA

Rail mounting according DIN EN60715.

ELECTRONIC FEATURES:

- | | |
|---|---------------|
| • LCD Type | Graphic LCD |
| • LCD Size | 128 x 64 dots |
| • LCD refreshing | Every 200 ms |
| • Response time | |
| • Input → display | |
| All calculations are averaged over an interval of between 8 to 256 periods. Preset interval is 64 periods, which is 1.28 second at 50 Hz. | |

LED'S:

- | | |
|-----------------|---|
| • Communication | Green, Communication with RD500 in progress |
| • Alarm | Red, Fulfilled condition for alarm |

COMMUNICATION:

- | | |
|------------------------|---------------|
| • Type | RS485 |
| • Connection terminals | DB9 connector |

POWER SUPPLY, universal

- | | |
|----------------------|---------------|
| • AC Rated voltage | 48 V...276 V |
| • AC Rated frequency | 45 Hz...65 Hz |
| • DC Rated voltage | 20 V...300 V |
| • Consumption | < 5 VA |

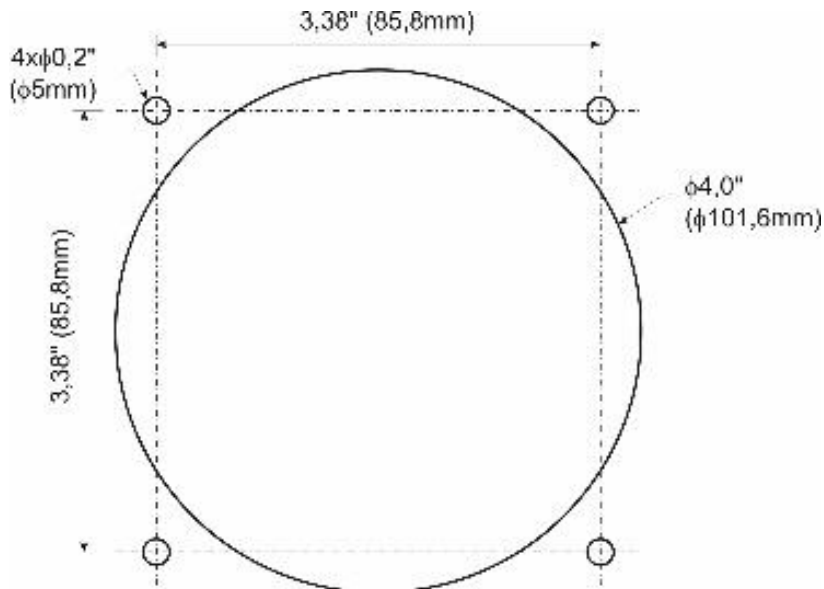
SAFETY FEATURES

- Safety
 - EU Directive on low voltage 2014/35/EU.
 - In compliance with EN 61010-1: 2010
 - 300 V rms, installation category III
 - Pollution degree 2
- EMC
 - EU Directive on electromagnetic compatibility 2014/30/EU.
 - In compliance with EN 61326-1:2013
 - Protection In compliance with SIST EN 60529: 1997.
 - Front side: IP52.
 - Rear side: IP20.
- Ambient conditions
- Climatic class
 - 3
 - In compliance with EN 62052-11: 2003
- Operation temperature
 - 5 to +55°C
- Storage temperature
 - 25 to +70°C
- Max. humidity
 - ≥ 90% r.h.

CONNECTION

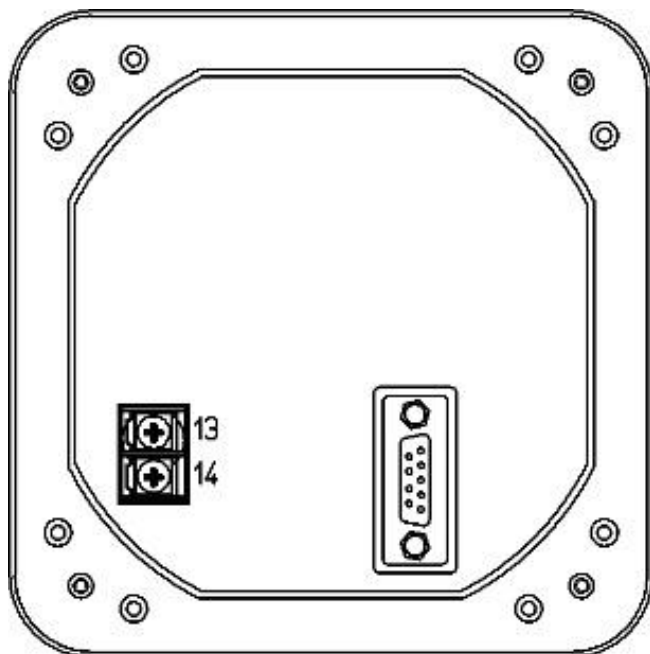
Mounting

Remote display is designed for panel mounting. Before inserting the device into the panel cut-out, removes four nuts and flat washers, insert it and position the nuts and flat washers. Fix device to the panel. Recommended panel cut out is 4 inch (picture below).

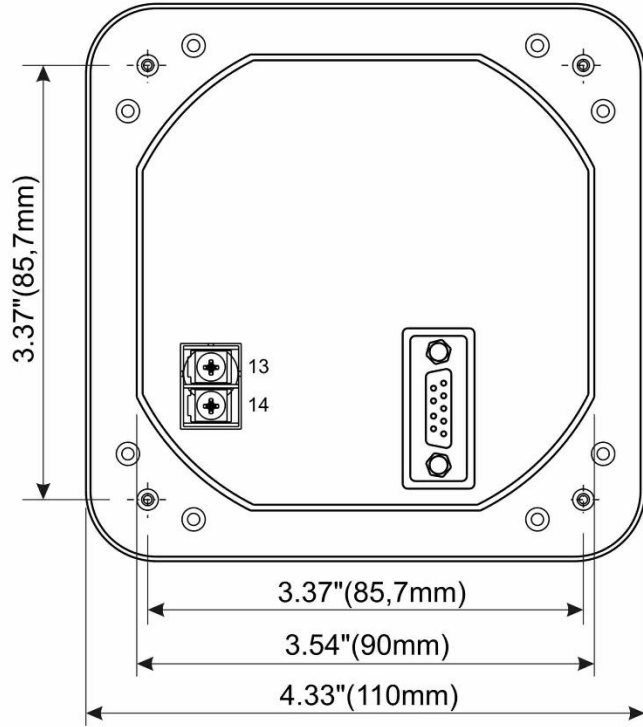
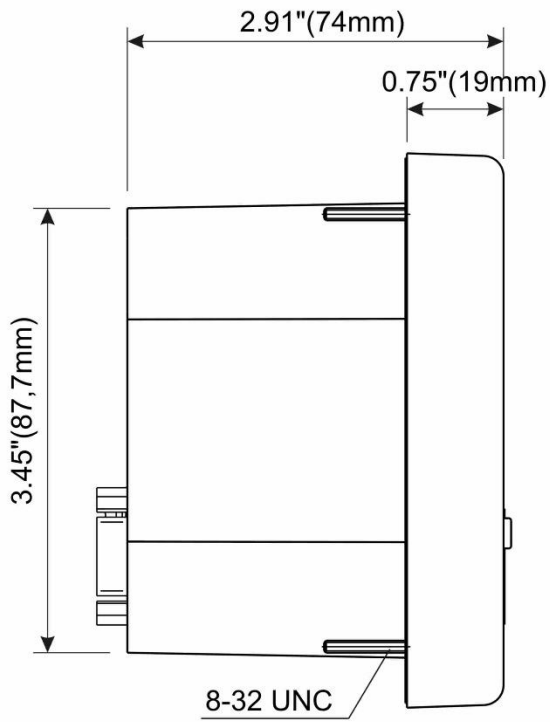


POWER SUPPLY

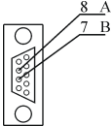
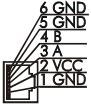
Connection of universal power supply to terminals 13, 14.



DIMENSIONAL DRAWING



CONNECTION TABLE

Terminals	Pos.	Data	Description
RD500 	1	Not connected	-
	2	-	Do not connect!
	3	-	Do not connect!
	4	Not connected	-
	5	-	Do not connect!
	6	Not connected	-
	7	To/From	B
	8	To/From	A
	9	Not connected	-
iMT5X0 	1	-	Grounding (⏏)
	2	-	Vcc
	3	To/From	A
	4	To/From	B
	5	-	Grounding (⏏)
	6	-	Grounding (⏏)

DISPOSAL

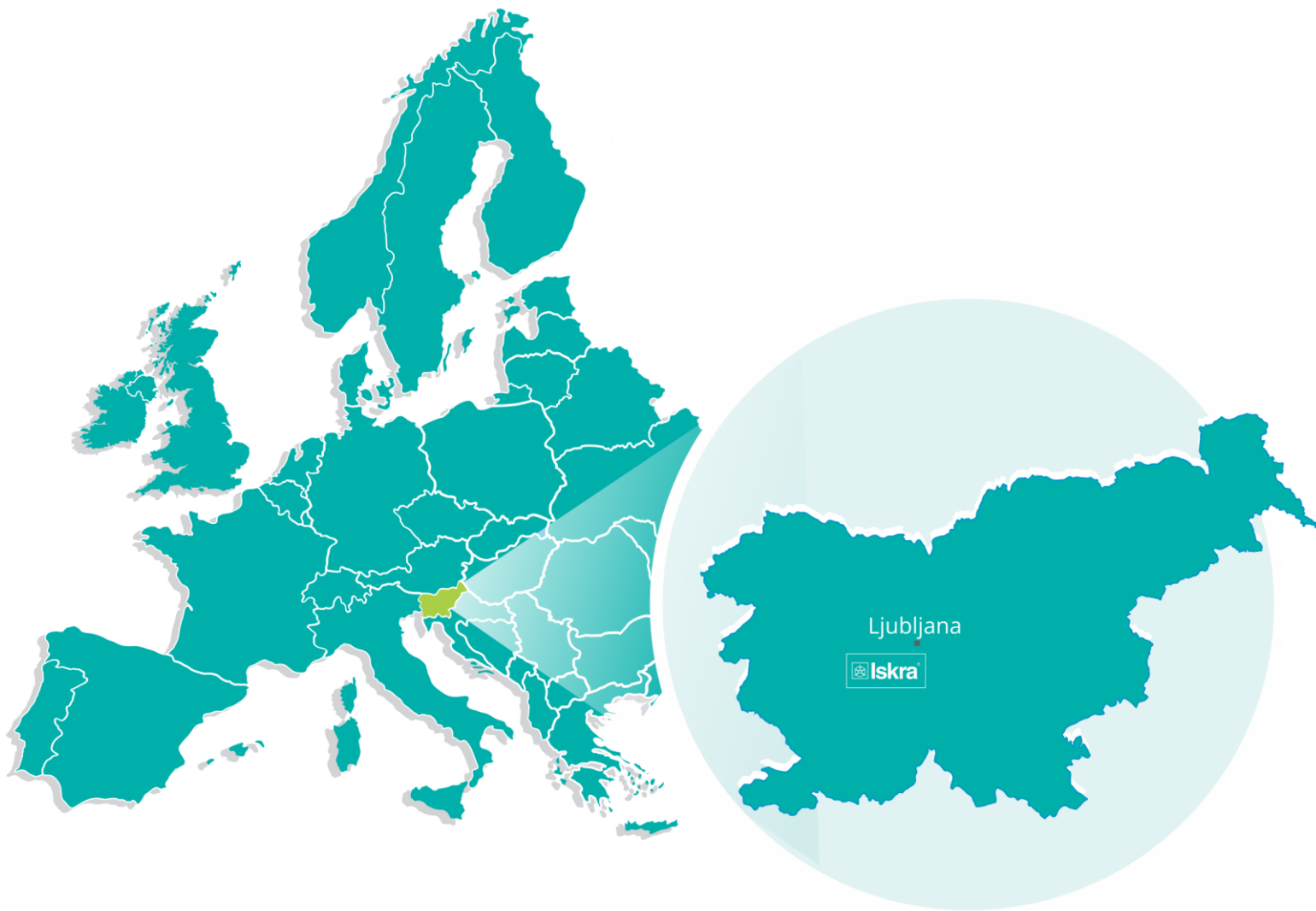


It is forbidden to deposit electrical and electronic equipment as municipal waste.

The manufacturer or provider shall take waste equipment free of charge.

DICTIONARY:

<i>RMS</i>	<i>Root Mean Square</i>
<i>TRMS</i>	<i>True Root Mean Square</i>
<i>PO</i>	<i>Pulse output</i>
<i>TI</i>	<i>Tariff input</i>
<i>PA</i>	<i>Power angle (between current and voltage)</i>
<i>PF</i>	<i>Power factor</i>
<i>THD</i>	<i>Total harmonic distortion</i>
<i>Ethernet</i>	<i>IEEE 802.3 data layer protocol</i>
<i>MODBUS/DNP3</i>	<i>Industrial protocol for data transmission</i>
<i>MiQen</i>	<i>ISKRA setting and acquisition Software</i>
<i>AC</i>	<i>Alternating quantity</i>
<i>IR</i>	<i>Infrared (optical) communication</i>



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