



COMMON METER READING INSTRUMENT CMRI-1010 (SMART-CMRI)

IEC - 62056 (DLMS) Compliant

Common Meter Reading Instrument (CMRI) is a handheld computer used to download data from electronic tri-vector meters, supporting different protocols like IEC, ANSI and PACT. CMRI is also compliant to IS-15959/ DLMS (IEC-62056) standard. CMRI can be interfaced with the portable printer for spot billing applications.

SANDS CMRI-1010 (SMART-CMRI) comes with LCD Graphical (3.5" TFT) & 15Line x 40 Characters visibility is rugged to withstand drop on to concrete and waterproof. CMRI is available with a memory size of 512 MB.

Communication interfaces (Optional)*

- ◇ IR
- ◇ GSM / GPRS (4G)
- ◇ GPS
- ◇ IrDA
- ◇ Bluetooth
- ◇ LPR / ZIGBEE / 6LOWPAN

FEATURES

- ◇ Electronic reports for Static Tri-Vector Meter data
- ◇ No manual intervention & error-free reports
- ◇ Universal report generation irrespective of meter make
- ◇ Reports affecting activities like energy accounting, technical loss. calculation & deriving industry load patterns
- ◇ HT service meter reports in comparison to the respective Feeder Meter data
- ◇ Consolidated consumer reports for quick reference for higher-level management
- ◇ High Speed (HS) communication
- ◇ Complied with Bluetooth / RS-232 Printers
- ◇ Complied with common DLMS S/W for conventional meter and smart meter



TECHNICAL SPECIFICATION

CONTROL UNIT

Operating System	DOS and Linux Kernel 4.4 RAM (DDR2) – 256MB
Memory	NAND Flash – 512MB Micro SD Card -32GB

DISPLAY UNIT

Display	LCD Graphical (3.5" TFT) (15 Line x 40 Characters)
Daylight visibility	LED backlit-white

KEYBOARD

Type	Sealed Membrane (Tactile)
Number of Keys	45 keys (Separate keys for Alphabets and Numbers, Dual-ON /OFF & Enter key)
Key Life	1 million operations

COMMUNICATION

Serial	RS 232 – One Port 300 Baud to 115K Baud 2nd RS 232 port (Optional)* Ethernet (Over USB)
Optional interface*	GPRS (2G / 4G) 6LoWPAN / ZIGBEE BLE 4.0 BLUETOOTH GPS IR / IRDA

CLOCK

Real-Time	MM/DD/YY : HH/MM/SS
Calendar	30 years
Back up battery	Li Battery maintains data integrity for 10 years

BATTERY

Capacity	2600/5000mAh (Optional)* with Fast Charger Separate pin/port for battery charging
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PHYSICAL FEATURES

L x W x D	Not exceeding 250 mm x 100 mm x 60 mm
Weight	less than 1 kg
Enclosure	High Strength Moulded ABS

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range	-10 Deg to 50 Deg Cel
Storage Temperature Range	-25 Deg to 70 Deg Cel
Relative Humidity	-95% non condensing

DATA ANALYTIC SOFTWARE (OPTIONAL)*

- ♦ Electronic Reports for Static Tri-vector Meter data
- ♦ Error free reports - No manual intervention
- ♦ Universal report generation independent of make of meter
- ♦ Reports for Energy accounting, Technical loss calculation, Industry load and seasonal patterns
- ♦ HT Service meter reports in comparison to the respective feeder Meter data
- ♦ Consolidated consumer report for higher management

COMMON DLMS BCS (OPTIONAL)*

- ♦ Compatible for all make of DLMS Meter (1ph, 3ph & ABT meters)
- ♦ Two Meters Data can be compared in Single window like (Main Meter and Check Meter)
- ♦ Export option for various formats (XML, MIOS, PDF, EXCEL, ASCII)
- ♦ Programming Facility for all Meters
- ♦ Various type of analysis is possible
- ♦ Common Analysis Report for Various makes of Meter
 - a. Consumption Comparison
 - b. Daily Energy Report
 - c. Cumulative Tamper Report & etc.,

ACCESSORIES

- ♦ Optical Probes
- ♦ USB Cable (Type 2.0) (Optional)*
- ♦ AC adapter
- ♦ Communication cable
- ♦ Carrying case
- ♦ Suited for AMR applications (Optional)*

IMPACT PRINTER (OPTIONAL)*

- ♦ 2 Inch paper width
- ♦ High speed printing
- ♦ Long ribbon life
- ♦ RS 232/Bluetooth Interface

Prices are subject to actual requirements, contact sales for pricing

Product development is continuous process - Specification subject to change
Common Meter Reading Instrument. 19/08/25

SIGNALS & SYSTEMS (INDIA) PRIVATE LIMITED

Toll-Free: 18005729705 | **+91** 8056020558 | **Email:** sales@sandsindia.com | **Web:** www.sandsindia.com