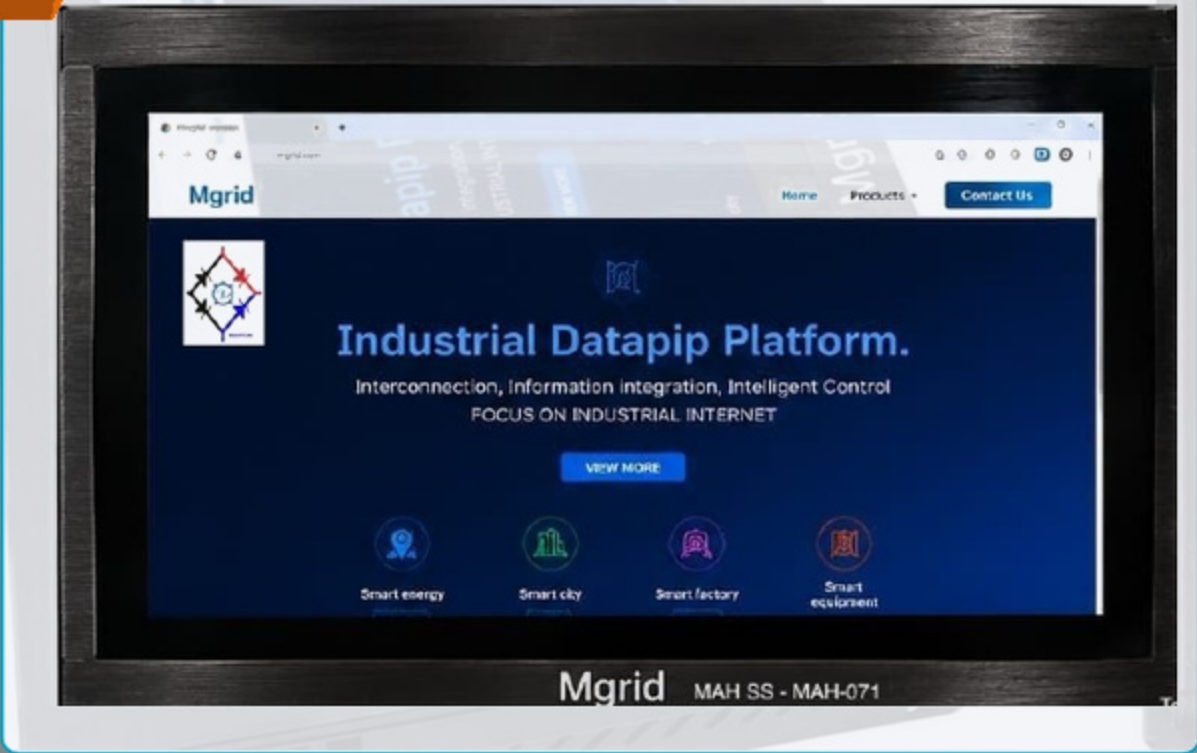


10.1" INDUSTRIAL TOTALIZER

MAH SS-MAH-071

PRODUCT DATASHEET | Rev. 1.0 | June 2026

Mahyan Fahir Electric Company LLC



MGrid Communications

10.1" INDUSTRIAL TOTALIZER

MAH SS - MAH-071

Industrial Panel PC — Intel N100 | 10-Pt Touch | IP65 | IEC-62056 (DLMS)

The 10.1" Industrial Totalizer is a rugged full-metal panel PC with Intel N100 quad-core (1.5–3.2 GHz, TDP 10W), 10-point capacitive touch at 1280×800, 2× Gigabit LAN, RS485, RS232, 2× USB 3.0, 128GB SSD — IP65 rated for SCADA & metering.

- IP65
- Intel N100
- 2× GbE
- IEC-62056
- CE / RoHS

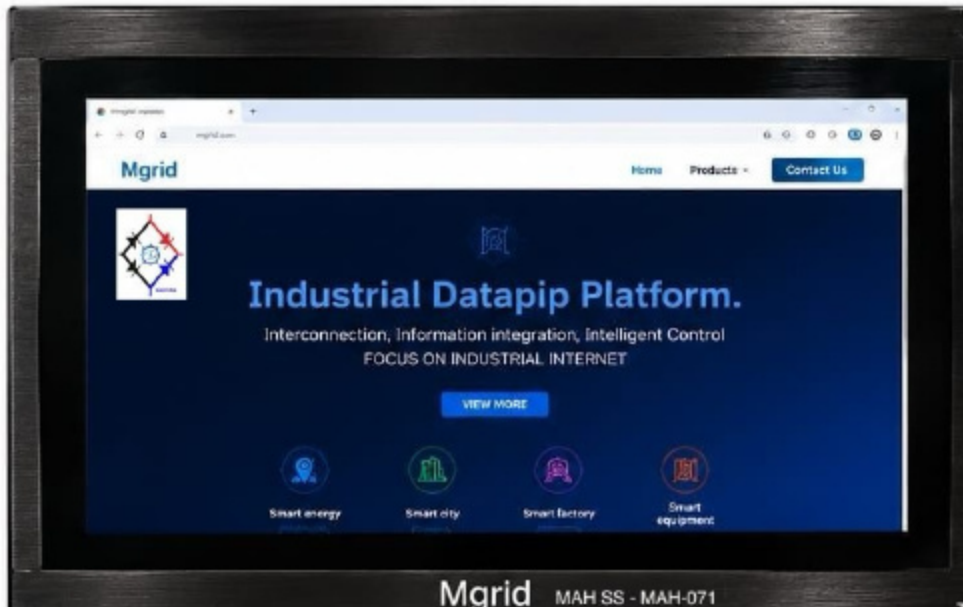
Applications: SCADA/HMI | Industrial Control | Energy Monitoring | Smart Metering

415×336×87 mm | N.W 1.7 kg / G.W 2.8 kg | Power: 12V/5A DC | -10°C to +60°C

SPECIFICATIONS	
Processor	Intel N100 2L2C 1.5–3.2 GHz TDP 10W
GPU	Intel SOC HD Graphics
Display	10.1" 1280×800, 4:3, 300 cd/m
Touch	Capacitive 10-pt, >50M touches
Backlight	LED, 50,000h life, 60Hz refresh
Contrast	1000:1, Standard view angle
Touch Hardness	>= 6H, Resolution 4096×4096
Memory	1× DDR4 SO-DIMM 3200MHz
Storage	128GB SSD + 1× Mini-PCle (WiFi/BT)
SIM Slot	1× SIM Slot (optional)
Ethernet	2× RJ45 Gigabit (Realtek RTL8111)
USB External	2× USB 3.0
USB Internal	3× USB 2.0 pin (ext. 5× USB2.0)
Serial	1× RS485, 1× RS232 (rear panel)
Audio	Realtek ALC269, 2.2W@4Ω, HP+Mic
Rear I/O	1DC-IN, 1HDMI, 1VGA, 2USB3, 2RJ45
Power	12V / 5A DC Adapter
Dimension	415 × 336 × 87 mm
Weight	N.W: 1.7 kg / G.W: 2.8 kg
IP Rating	IP65
Temperature	-10°C to +60°C, 20%–70% Humidity
Material	Full Metal Front & Back
Bracket	Desktop / Wall / Stand (Options)

AT A GLANCE	
Intel N100	Quad-Core 1.5–3.2 GHz
10.1" / 10pt	1280×800 Cap. Touch
IP65	Rugged Metal Body
128 GB	SSD Storage
2× RJ45	Gigabit Ethernet
12V/5A	DC Power Input

01 PRODUCT OVERVIEW



What is the 10.1" Industrial Totalizer?

The 10.1" Industrial Totalizer (MAH SS-MAH-071) is a rugged full-metal panel PC powered by the Intel N100 quad-core (1.5–3.2 GHz, TDP 10W).

It features a 10-point capacitive touch display at 1280×800, 2× Gigabit LAN (Realtek RTL8111), RS485/RS232, 2× USB 3.0, 128GB SSD storage.

Rated IP65, CE & RoHS — built for SCADA, HMI, energy metering and industrial control systems.

N100

Intel

Rated

IP65

GbE

Dual

×2

USB 3.0

Touch

10-Pt

SSD

128GB

+RS232

RS485

02 KEY FEATURES

Intel N100 Processor

Quad-core 1.5–3.2 GHz, TDP 10W
Intel SOC + Intel HD Graphics

10.1" Capacitive Touch

1280×800, 10-point, >50M touches
300 cd/m, 1000:1, 60Hz LED BL

Dual Gigabit Ethernet

2× RJ45 (Realtek 2×RTL8111)
For SCADA, HMI & network control

128GB SSD + Mini-PCle

128GB SSD storage onboard
1× Mini-PCle for WiFi/BT module

USB 3.0 & Serial I/O

2× USB 3.0 + 3× USB 2.0 internal
1× RS485, 1× RS232 on rear panel

IP65 Rugged Metal Body

Full metal front & back casing
Desktop / wall / stand options

DDR4 SO-DIMM Memory

1× DDR4 SO-DIMM 3200MHz slot
Supports RAM expansion

Audio & Expansion I/O

Realtek ALC269, 2.2W@4Ω output
1× HP Out, 1× Mic In, 1× SIM opt.

CE / RoHS / IEC-62056

CE marked & RoHS compliant
IEC-62056 DLMS metering standard

03 COMPLETE TECHNICAL SPECIFICATIONS

PROCESSOR & CHIPSET

Processor	Intel N100 2L2C 1.5–3.2 GHz TDP 10W
Chipset	Intel SOC
GPU	Intel HD Graphics (integrated)

DISPLAY

Screen Size	10.1 inch, 4:3 aspect ratio
Resolution	1280 × 800 pixels
Backlight	LED, 50,000h life, 300 cd/m
Contrast Ratio	1000:1
Refresh Rate	60 Hz
View Angle	Standard

TOUCH SCREEN

Touch Type	Capacitive, 10-point multi-touch
Input Method	Finger or Touch Pen (USB interface)
Touch Life	> 50 million touches
Transmittance	>= 85%
Surface Hardness	>= 6H
Touch Resolution	4096 × 4096

MEMORY & STORAGE

RAM	1× DDR4 SO-DIMM 3200MHz
SSD	128GB internal SSD
Expansion	1× Mini-PCle (WiFi+BT) + Antenna
SIM Slot	1× SIM Card Slot (optional)

REAR PANEL I/O

DC Power	1× DC-IN (12V/5A)
Video Output	1× HDMI + 1× VGA
USB 3.0	2× USB 3.0
LAN	2× RJ45 Gigabit
Serial	1× RS485, 1× RS232
Audio	1× HP Out, 1× Mic In

MOTHERBOARD INTERNAL I/O

ATX Power	14-PIN ATX
Video Headers	1× VGA, 1× LVDS
Fan	1× CPU FAN
Front Panel	1× F_PANEL
COM Ports	2× COM (up to 6× COM option)
SATA	1× SATA + 1× SATA Power
PS2	1× PS2 Header
USB Internal	3× USB 2.0 pin (extends 5× USB 2.0)
Audio Internal	1× F_AUDIO, 1× SPEAKER

ETHERNET & AUDIO

Ethernet Chipset	Realtek 2× RTL8111 Gigabit
Audio Codec	Realtek ALC269
Audio Power	2.2W @ 4Ω max output

ENVIRONMENT & PHYSICAL

Operating Temp.	-10°C to +60°C
Humidity	20% to 70%
IP Rating	IP65
Material	Full Metal (Front & Back)
Dimension	415 × 336 × 87 mm
Weight	N.W: 1.7 kg / G.W: 2.8 kg
Power Supply	12V / 5A DC Adapter
Bracket	Desktop / Wall Hanging / Stand

04 PHYSICAL DIMENSIONS



Width

415 mm

Height

336 mm

Depth

87 mm

N.W.

1.7 kg

G.W.

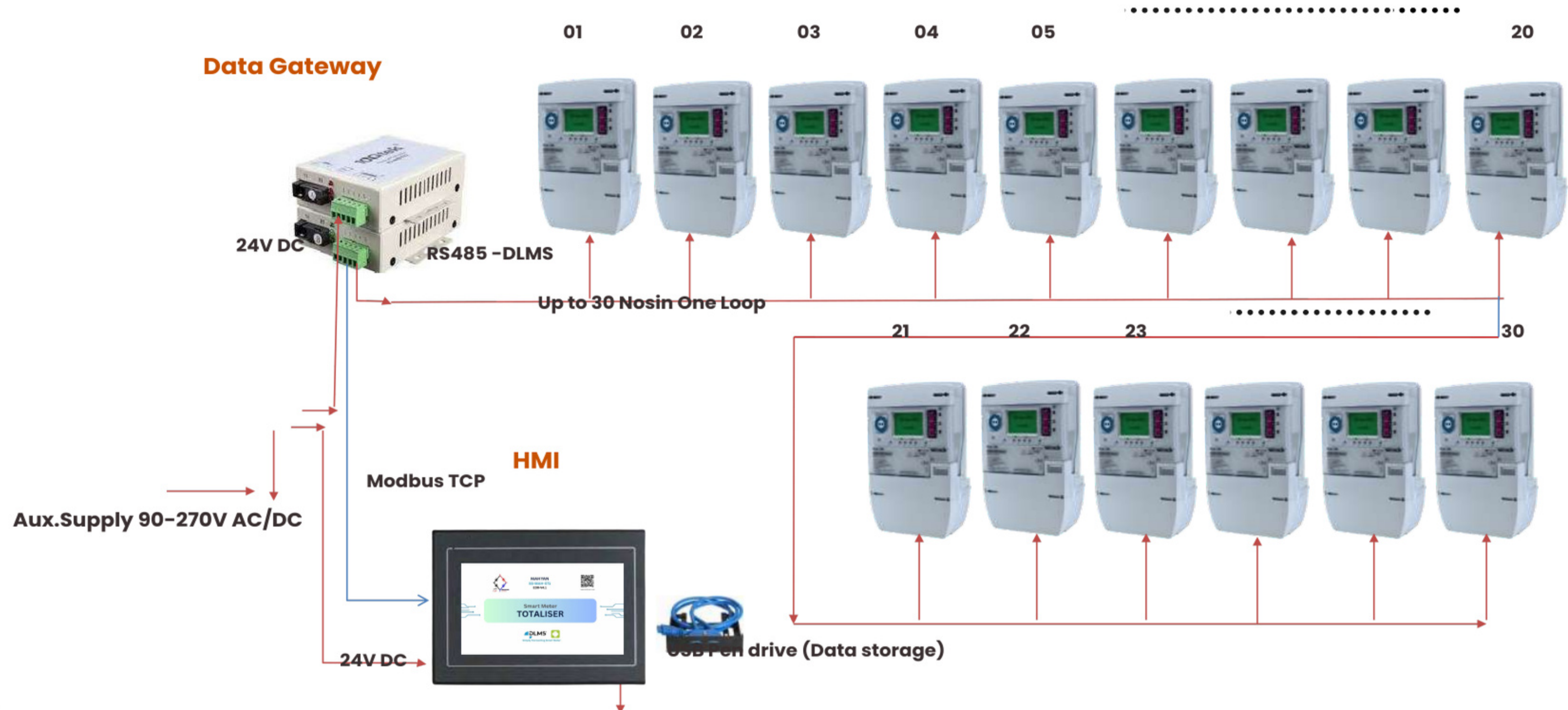
2.8 kg

Power

12V/5A DC

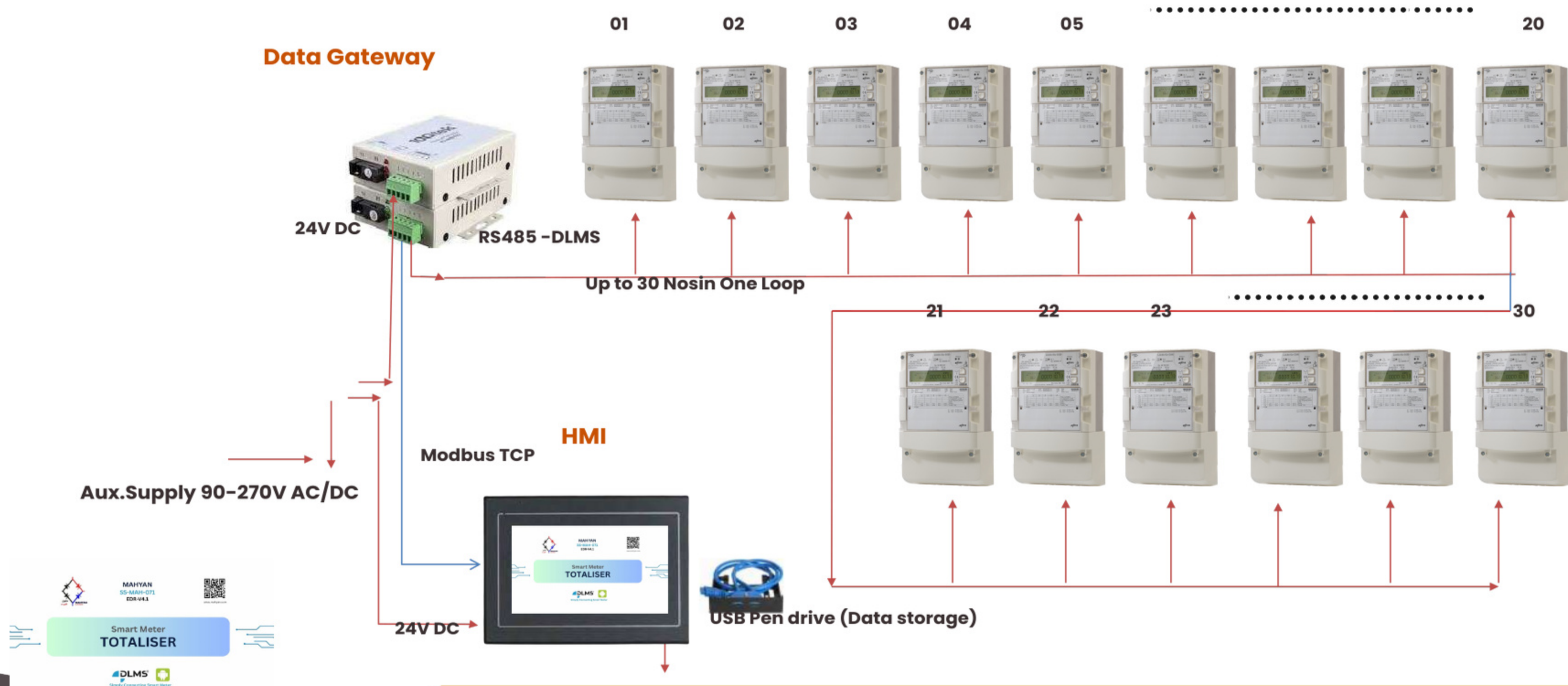
MAH TOTALIZER- COMMUNICATION NETWORK ARCHITECTURE

Feeder Meters- (Secure Apex 200 Model) Max-50nos



MAH TOTALIZER- COMMUNICATION NETWORK ARCHITECTURE

Feeder Meters- Main (Landis + Gyr E650) Max-30nos



05 PRODUCT VIEWS



06 HARDWARE I/O & CONNECTIVITY

Rear Panel I/O	Motherboard Internal I/O	Expansion & Wireless
1× DC Power Input (12V/5A) 1× HDMI Output 1× VGA Output 2× USB 3.0 Ports 2× RJ45 Gigabit LAN 1× RS485 + 1× RS232 1× Headphone Out 1× Microphone In	14-PIN ATX Power Connector 1× VGA + 1× LVDS Header 1× CPU FAN Connector 1× Front Panel (F_PANEL) 2× COM (up to 6× COM opt.) 1× SATA + 1× SATA Power 1× PS2 Header 3× USB 2.0 pin (ext. 5× USB2) 1× F_AUDIO + 1× SPEAKER	1× Mini-PCle (WiFi + BT) - Antenna connector included 1× SIM Card Slot (optional) - Realtek ALC269 Audio Codec 2.2W @ 4Ω max audio output - Realtek 2×RTL8111 GbE NICs - Intel HD Graphics integrated - HDMI + VGA dual display opt.

07 APPLICATIONS

HMI Systems SCADA /	Control Panels Industrial	Monitoring Energy	Metering Smart	Acquisition Data	Automation Building
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CONTACT US

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Brand: Mahyan MGrid Communication
 Model: MAH SS-MAH-071
 Revision: Rev. 1.0 | June 2026
 Origin: Made in India & Integrated in KSA