



NORMA RECEIVER

THE TYRO NORMA: VERSATILE IN EVERY SENSE OF THE WORD!

Tyro Norma is extremely versatile due to its modular design with various programmable PLCs. These PLCs in the Norma offer users the possibility to get access to a wide range of - both digital and analog - inputs and outputs.

Besides the simplex model, Norma is also available as full-duplex system, making wireless data transfer possible. For example, feedback of analog values such as kilos or liters can be shown on the transmitter.

With a keyboard on the receiver it is possible to control the machine or the installation. This offers great advantages, especially when the PLC is being used as the main control.

The Norma cast casing is IP65 classified and is available in two versions, depending upon the number of functions ranging from 10 to 38. The Tyro Norma receiver is mounted in an enclosure but it can also be mounted on a DIN rail.

- High level of certification (EMC-e11 certification/R&TTE/CE)
- Both simplex and dual radio communication possible
- Digital and analog inputs and outputs
- Extremely fast reaction time (<0.1 second)
- Up to 8 transmitters per receiver
- Programmable up to 38 functions standard (more functions on request)
- Can be fitted with backlit keyboard and LCD display
- Safety class category 3 (optional) EN 945-1/ISO 13849-1
- Can be mounted on a DIN-rail (optional)

TECHNICAL SPECIFICATIONS

Frequency	868 MHz (915 MHz option)
ID Safety code	Unique 64 bit (18 trillion combinations possible)
Communication	Simplex / semi-duplex / full-duplex
Reaction time	< 0.1 second
Operating voltage	10 - 38 Vdc / 230 Vac
Temperature range	-30°C / +75°C
Range under normal conditions	Up to 300 metres
Damp and dirt resistance	IP 65
Size (10-20 functions)	240 x 160 x 92 mm (L x W x H)
Size (21-38 functions, > 4 PLCs)	300 x 200 x 80 mm (L x W x H)
Weight	1150 g / 1610 g (depends on the number of PLCs)
Number of functions	10 - 38, more functions on request
Optional modules	RS-232, RS-485, CAN-bus
Other options	Display, backlit keyboard, out of range protection

PLC 15 RELAYS

Digital output	15 relays, potential free contacts
Digital input	12 pieces, 10 - 40 Volt input
Databus	2 x connection I ² C internal - 1 piece I ² C external
Hardware Settings	8-function dipswitch

ACCESSORIES

Antenna extension cable	Optional 1, 2 or 5 metres
DIN-rail	Optional



The housing of the Norma receiver has room for 4 PLCs and is therefore programmable up to 38 functions. More functions are possible on DIN-rail.



Compatible with the Tyro Cetus 12F and Tyro Cetus 24F transmitters.



VERSATILITY MEETS RELIABILITY