

Introduction



Thanks for choosing an Omega programmer.

The **RF programmer** allows to modify some RTD Converters parameters, such as: sensor type, output error value, compensation type, temperatures recording, sensor temperature range.

Here below a description of the programmer functions and their management program on PC.

1 Package contents

- 1 Omega RFID programmer
- 1 USB – mini cable

2 Safety guide lines

Read carefully the safety guidelines and programming instructions contained in this manual before using/connecting the device.

Only qualified personnel should be allowed to use the device and/or service it and in accordance to technical data and environmental conditions listed in this manual.

Do not dispose electric tools together with household waste material. In observance European Directive 2002/96/EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

3 RFID programmer connection

The RF programmer works only if connected to a PC with a 32/64 bit Windows XP (or later).

Connect the RF programmer through the provided USB – mini cable and wait the drivers installation.

Once the drivers are installed, to use the programmer, it is necessary to start the management program which can be downloaded on www.omega.com.

4 Using the RFID programmer

Start the management program: it will detect the effective connection between programmer and PC; if there is no connection display shows:

Warning : PROGRAMMER not connected

The management program allows three functions:

- Reading Mode
- Writing Mode
- Editing Mode

5 Reading Mode

Once started, the program enters immediately in "Reading Mode" and scans the surrounding area to detect an ISO15693 compatible target (RTD converters). If a target is detected, the programmer starts to query it to get informations about the connected sensor.

The RF programmer can also detect ISO15693 compatible target which may be not configured for RF communication with the programmer, in this case a message similar to the previous will be displayed (see figure below).

!!! Warning : parameters ERRORS !!!

These informations concern:

- Type of connected sensor (PT100, NI100, PT1000)
- Type of sensor compensation (2,3 or 4 wires)
- Output error value (3,9 or 21 mA)
- Enabling data logging



It is possible to visualize and print a graphic of the recorded temperatures, through the "Reading Data" function, downloading data from the RTD converter (see picture).

5.1 Writing Mode

This mode is reserved only to the writing of parameters on the RTD converter. To edit these parameters, refer to the "Editing Mode" function.

5.2 Editing Mode

This function allows to edit the parameters which will be written on the RTD Converter. It is also possible to set the temperature range of the connected sensor, selecting the min. and max. temperature value related respectively to 4 and 20 mA.



omega.com info@omega.com

Servicing North America:

U.S.A.: Omega Engineering, Inc., One Omega Drive, P.O. Box 4047, Stamford, CT 06907-0047 USA
Toll-Free: 1-800-826-6342 (USA & Canada only), Customer Service: 1-800-622-2378 (USA & Canada only)
Engineering Service: 1-800-872-9436 (USA & Canada only),
Tel: (203) 359-1660, Fax: (203) 359-7700
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2 YEAR
WARRANTY



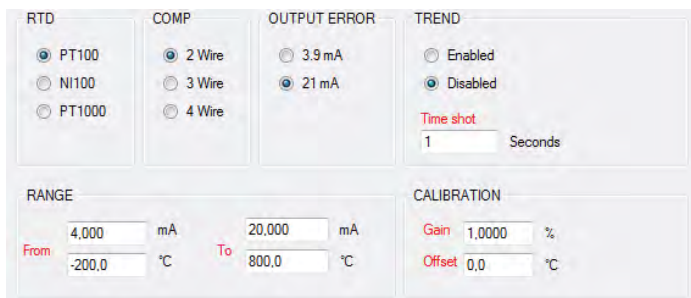
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User's Guide

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TX400-RFID
RF programmer

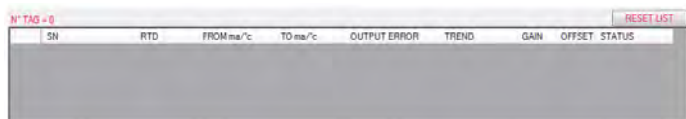


Editable parameters

The correct programming procedure for more RTD converters is done through the following functions:

1. Editing mode: Parameters are set up for the first time
2. Writing mode: Parameters are written on each RTD converter (parameters don't change)
3. Reading mode: Parameters written on each RTD converter are read

At each reading/writing it is added a target to the list below: this list can be reset pressing "Reset List".



The management program allows a quick connection to www.omega.com

Notes / Updates

Introduzione

Grazie per aver scelto un programmatore Omega. Con l'**RF programmer** è possibile impostare vari parametri dei Convertitori RTD, come, ad esempio, il tipo di sonda utilizzato, l'uscita in caso di errore, ecc. Di seguito vengono descritte le varie funzionalità del programmatore e del relativo programma di gestione su PC.

1 Norme di sicurezza

Prima di utilizzare il dispositivo, leggere con attenzione le istruzioni e le misure di sicurezza contenute in questo manuale.

L'utilizzo/manutenzione è riservato a personale qualificato ed è da intendersi esclusivamente nel rispetto dei dati tecnici e delle condizioni ambientali dichiarate.

Non gettare le apparecchiature elettriche tra i rifiuti domestici. Secondo la Direttiva Europea 2002/96/CE, le apparecchiature elettriche esauste devono essere raccolte separatamente al fine di essere reimpiegate o riciclate in modo eco-compatibile.

2 Contenuto della confezione

- 1 RF programmer Omega
- 1 cavo USB - mini

3 Connessione del dispositivo

L'**RF programmer** funziona solo se connesso a un PC munito di sistema operativo Windows XP (o successivi) a 32/64 bit. Collegare il programmatore al PC con l'apposito cavo USB-Mini fornito nella confezione e attendere l'installazione dei driver da parte del sistema operativo.

Una volta installati i driver, per utilizzare il programmatore, è necessario avviare il programma di gestione disponibile sul sito www.omega.com.

4 Utilizzo del dispositivo

Una volta scaricato il programma dal sito, avviare l'eseguibile che rileverà l'effettiva connessione del programmatore al PC. In caso contrario verrà visualizzato il seguente messaggio:

Warning : PROGRAMMER not connected

Il programma permette l'esecuzione di tre funzioni:

- Reading Mode
- Writing Mode
- Editing Mode

5 Modalità di lettura (Reading Mode)

Quando viene avviato, il programma entra immediatamente in "Modalità Lettura" (Reading Mode), nella quale scandisce l'area circostante per rilevare target compatibili allo standard ISO15693 (convertitori RTD).

L'**RF programmer** può inoltre rilevare target compatibili con lo standard ISO15693, ma che potrebbero non essere configurati per la comunicazione in RFID con tale programmatore: in questo caso apparirà un messaggio di errore simile al precedente.

!!! Warning : parameters ERRORS !!!

Se un target viene rilevato, il programmatore inizierà la fase di interrogazione di quest'ultimo, il quale renderà disponibili varie informazioni sulla sonda ad esso collegata.

Le informazioni riguardano:

- il tipo di sonda collegata (PT100, Ni100, PT1000)
- il tipo di compensazione di tale sonda (a 2, 3 o 4 fili)
- il valore dell'uscita in caso di errore (3, 9 o 21 mA)
- l'abilitazione della registrazione dati



È anche possibile visualizzare e stampare un grafico delle temperature registrate tramite la funzione "Reading data", scaricando i relativi dati dal convertitore RTD (vedi figura).

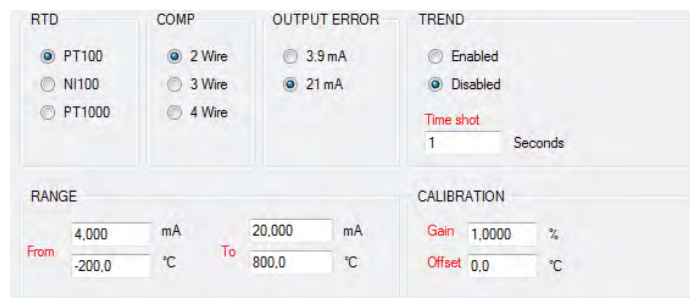
6 Modalità di scrittura (Writing Mode)

Questa modalità è riservata alla sola scrittura dei parametri, descritti in precedenza, sul Convertitore RTD. Per editare tali parametri utilizzare la funzione "Editing Mode".

7 Modalità di modifica parametri (Editing Mode)

Questa funzione permette di editare i parametri (descritti in precedenza) che saranno poi scritti nel Convertitore RTD.

È inoltre possibile impostare il range di temperatura della sonda collegata al Convertitore RTD. In particolare si va ad impostare il valore minimo e massimo di temperatura da associare rispettivamente a 4 e 20 mA.

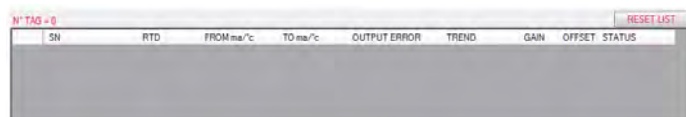


Parametri editabili

Nel dettaglio, la corretta procedura di programmazione per più convertitori RTD si esegue mediante la seguente sequenza:

1. Editing mode: si settano i parametri la prima volta;
2. Writing mode: vengono scritti i parametri su ogni convertitore RTD (i parametri rimangono invariati);
3. Reading mode: per la verifica, si leggono i parametri scritti nei convertitori RTD.

Ad ogni lettura/scrittura viene aggiunto un target alla lista dei target rilevati (situata in basso): essa è resettabile tramite la pressione del tasto "Reset List".



Il programma, infine, permette il collegamento al sito www.omega.com

Note / Aggiornamenti
