



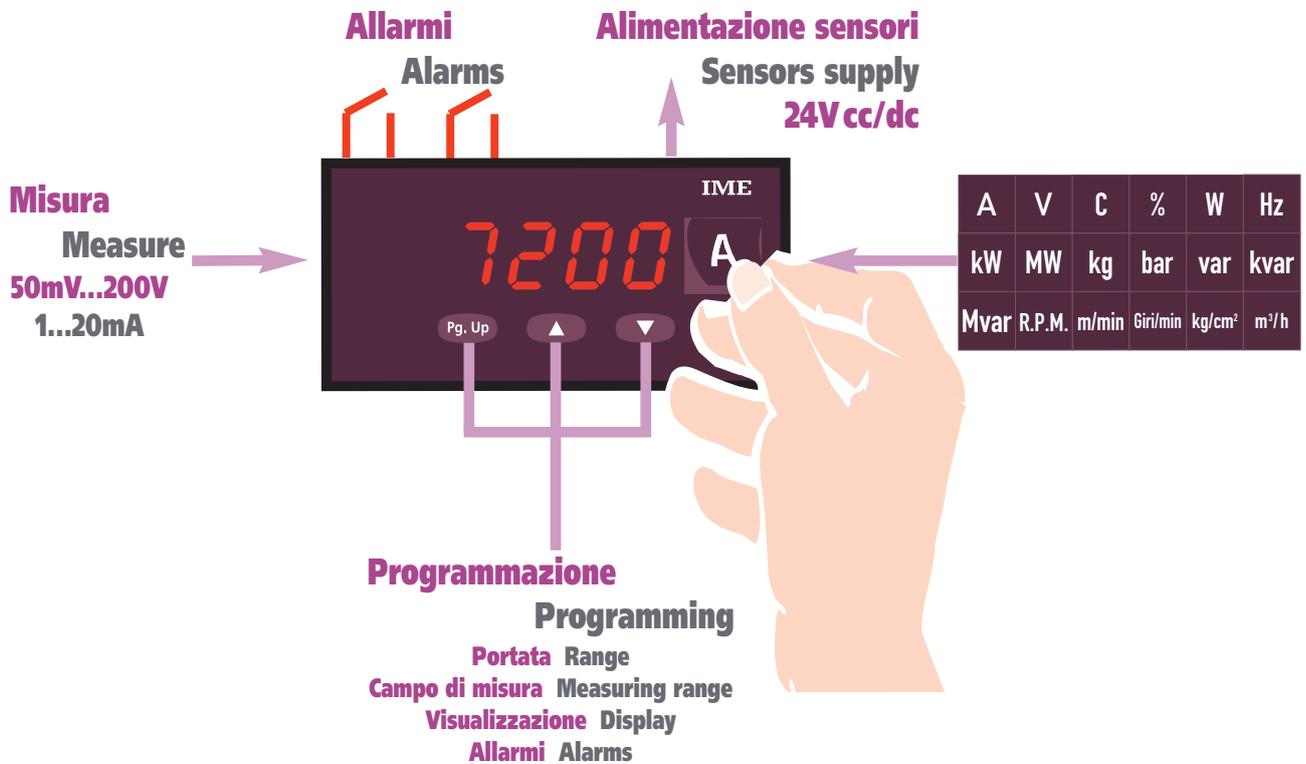
Indicatore digitale di tensione o corrente continua e pulsante 96x48 mm

Direct and pulsating voltage or current digital meter 96x48 mm

DG4Q2

- Misura e visualizzazione di tensione o corrente continua e pulsante unidirezionale
- Misura e visualizzazione di velocità, da dinamo tachimetrica
- Visualizzazione di qualsiasi grandezza direttamente proporzionale alla tensione o corrente di ingresso
- 5 portate d'ingresso 200mV / 20V / 200V / 20mA / 2mA
- Campo di misura programmabile 25...100% della portata
- Visualizzazione programmabile
- Memorizzazione valore massimo misurato (azzerabile)
- 2 allarmi programmabili
- Uscita 24Vcc per alimentazione sensori (temperatura, pressione, livello, ecc.)

- To measure and display unidirectional and pulsating current or voltage
- To measure and display speed, from tachometer dynamo
- Display of any proportional quantity directly proportional to input current or voltage
- 5 input ranges 200mV / 20V / 200V / 20mA / 2mA
- Programmable measuring range 25...100% of the range
- Programmable display value
- Storage of highest measured value (resettable)
- 2 programmable alarms
- External sensor supply output 24Vdc (temperature, pressure, level, etc.)



CODICE DI ORDINAZIONE ORDERING CODE	AL. AUSILIARIA AUX. SUPPLY		USCITA OUTPUT	ALLARMI ALARMS
	ca / ac	cc / dc		
DG4Q21P2	24V	-	-	2
DG4Q23P2	115V	-		
DG4Q26P2	230V	-		
DG4Q27P2	240V	-		
DG4Q2HP2	48V	20...150V		
DG4Q2LP2	-	150...250V		
DG4Q21P22	24V	-		
DG4Q23P22	115V	-		
DG4Q26P22	230V	-		
DG4Q27P22	240V	-		

VISUALIZZAZIONE

Tipo display: LED rossi, 7 segmenti

Altezza cifre: 14mm

N° punti visualizzazione: 10.000 (4 cifre)

Indicazione massima: 9999

Unità ingegneristica: personalizzabile dall'utente (targa adesiva)

Indicazione fuoriscala (visualizzazione > 9999): indicazione " _ _ _ "

Aggiornamento visualizzazione: 3 letture/s

Aggiornamento misura: 3 letture/s

Memorizzazione valore massimo misurato (azzerabile)

Precisione¹ (riferita al campo di misura): ± (0,25% + K) +1 digit

$K = 0,2 \frac{\text{portata}}{\text{campo di misura}}$ dove:

Portata = 200mV opp. 20V opp. 200V opp. 20mA opp. 2mA

Campo misura = fondo scala - inizio scala (0-200V = 200, 4...20mA = 16)

Es.: portata 200mV

campo di misura 0...150mV

Precisione = $0,25\% + 0,2 \frac{200}{150} = 0,5\% + 1 \text{ digit}$

¹ con ingresso corrente o tensione continua

PROGRAMMAZIONE

Programmazione parametri: tastiera frontale, 3 tasti

Conservazione parametri di configurazione: memoria permanente (EEPROM) senza batteria

Accesso alla programmazione: combinazione di tasti

PARAMETRI PROGRAMMABILI

Portata (Un / In): 200mV - 20V - 200V - 20mA - 2mA

Campo di misura: min. 0...0,25Un / In • max. 0...Un / In

VISUALIZZAZIONE

Inizio scala: 0...9999 digit

Fondo scala: 0...9999 digit

Punto decimale: 00.00 - 000.0 - 0000

Azzeramento valore massimo misurato

Allarmi: tipo, soglia, isteresi, ritardo, stato relè

ALLARMI

Allarmi programmabili: 2

Tipo: programmabile minima e/o massima

Soglia: programmabile -1999...1999 digit

Isteresi: programmabile -1999...1999 digit

DISPLAY

Tip of display: 7 segments, red LED's

Digit height: 14mm

N° of display points: 10.000 (4 digit)

Maximum display: 9999

Engineering unit: user-customizable (adhesive label)

Overrange indication (display > 9999): indication " _ _ _ "

Display update: 3 readings/s

Measure update: 3 readings/s

Storage of highest measured value (resettable)

Accuracy¹ (referred to the measuring range): ± (0,25% + K) +1 digit

$K = 0,2 \frac{\text{range}}{\text{measuring range}}$ where:

Range = 200mV or. 20V or. 200V or. 20mA or. 2mA

Measuring range = full scale - offset (0-200V = 200, 4...20mA = 16)

Ex.: range 200mV

measuring range 0...150mV

Accuracy = $0,25\% + 0,2 \frac{200}{150} = 0,5\% + 1 \text{ digit}$

¹ with direct voltage or current input

PROGRAMMING

Parameters programming: front keyboard, 3 keys

Hold of configuration parameters: EEPROM memory, non volatile, no battery

Programming access: keys combination

PROGRAMMABLE PARAMETERS

Range (Un / In): 200mV - 20V - 200V - 20mA - 2mA

Measuring range: min. 0...0,25Un / In • max. 0...Un / In

DISPLAY

Offset: 0...9999 digit

Full scale: 0...9999 digit

Decimal point: 00.00 - 000.0 - 0000

Reset of highest measured value

Alarms: type, set-point, hysteresis, delay, relay state

ALARMS

Programmables alarms: 2

Type: programmable min. and/or max.

Set-point: programmable -1999...1999 digit

Hysteresis: programmable -1999...1999 digit

Tempo di intervento: ≤ 500ms
Ritardo intervento: programmabile 0...60s (passi 1s)
Precisione ritardo: ±10%
Tempo di ripristino: ≤ 500ms
Uscita: 2 relè con contatto SPDT, libero da potenziale
Stato relè: programmabile norm. eccitato o diseccitato
Portata contatti: 5A 250Vca – 0,5A 100Vcc
Precisione¹ (riferita al campo di misura): 2 (0,25%+K)+ 1 digit
$K = 0,2 \frac{\text{portata}}{\text{campo di misura}}$
¹ con ingresso corrente o tensione continua
Segnalazione intervento allarmi: accensione LED "AL"

INGRESSO

Inserzione: diretta
Misura: tensione oppure corrente continua o pulsante, valor medio
Forma d'onda: continua o pulsante con frequenza ≥ 50Hz
TENSIONE NOMINALE Un: 200mV – 20V – 200V
CORRENTE NOMINALE In: 20mA – 2mA
Campo di misura selezionabile
Campo di misura massimo: 0...Un opp. 0...In
Campo di misura minimo: 0...0,25Un opp. 0...0,25In
È possibile selezionare qualsiasi valore compreso tra quello minimo e massimo ottenendo il campo di misura desiderato.
Impedenza di ingresso / caduta di tensione: vedi tabella
Sovraccarico permanente: 1,2Un – 1,2In
Sovraccarico istantaneo: 2Un/5s – 2In/5s
Esempio di campi di misura selezionabili:

Portata Range	200mV	20V	200V	20mA	2mA
Campo di misura Measuring range	0...200mV	0...20V	0...200V	0...20mA	0...2mA
	0...150mV	0...10V	0...150V	0...10mA	0...1mA
	0...100mV	0...5V	0...100V	0...5mA	
	0...60mV	1...5V		4...20mA	
	0...50mV	2...10V	0...50V		
Impedenza di ingresso Input impedance	≥ 20kΩ	≥ 200kΩ	≥ 4MΩ		
Caduta di tensione Voltage drop				≤ 2V	≤ 200mV

USCITA ALIMENTAZIONE SENSORI (DG4Q2.P22)

Per alimentazione trasduttori esterni (tecnica 2 o 4 fili)
Isolata galvanicamente da ingresso e ausiliaria
Valore nominale: 24Vcc (non stabilizzati)
Variatione: 15...30Vcc
Corrente massima: 30mA

ALIMENTAZIONE AUSILIARIA

Valore nominale Uaux ca: 24 - 48 - 115 - 230 - 240V
Variatione ammessa: ± 10% Uaux - 40...60V(Uaux 48V)
Frequenza nominale: 50Hz
Frequenza di funzionamento: 47...63Hz
Autoconsumo: 5VA
Valore nominale Uaux cc: 20...150Vcc - 150...250Vcc
Autoconsumo: 3W
Protezione contro l'inversione di polarità

ISOLAMENTO

(EN/IEC 61010-1)

Categoria di installazione: III
Grado di inquinamento: 2

Intervention time: ≤ 500ms
Delay: programmabile 0...60s (1s step)
Delay accuracy: ±10%
Reset time: ≤ 500ms
Output: 2 relays with SPDT contacts, potential free
Relay state: programmabile norm. energised or de-energised
Contacts range: 5A 250Vac – 0,5A 100Vdc
Accuracy¹ (referred to the measuring range): 2 (0,25%+K)+ 1 digit
$K = 0,2 \frac{\text{range}}{\text{measuring range}}$
¹ with direct volyage or current input
Alarms intervention display: "AL" LED on

INPUT

Connection: direct
Measurement: direct or pulsating current or voltage, average value
Waveform: direct or pulsating with frequency ≥ 50Hz
VOLTAGE RATING Un: 200mV – 20V - 200V
CURRENT RATING In: 20mA – 2mA
Programmable measuring range
Max. measuring range: 0...Un or 0...In
Min. measuring range: 0...0,25Un or 0...0,25In
It is possible to select any value between the lowest and the highest one obtaining the desired measuring range.
Input impedance / voltage drop: see table
Continuous overload: 1,2Un – 1,2In
Istantaneous overload: 2Un/5s – 2In/5s
Example of selectable measuring ranges:

SENSOR SUPPLY OUTPUT (DG4Q2.P22)

To feed external transducers (2 or 4 wire technique)
Galvanically insulated from input and auxiliary supply
Rated value: 24Vdc (not stabilized)
Tolerance: 15...30Vcc
Maximum load: 30mA

AUXILIARY SUPPLY

Rated value Uaux ac: 24 - 48 - 115 - 230 - 240V
Tolerance: ± 10% Uaux - 40...60V(Uaux 48V)
Rated frequency: 50Hz
Working frequency: 47...63Hz
Rated burden: 5VA
Rated value Uaux dc: 20...150Vdc - 150...250Vdc
Rated burden: 3W
Protected against incorrect polarity

INSULATION

(EN/IEC 61010-1)

Installation category: III
Pollution degree: 2

Prova di tensione alternata 2kV valore efficace 50Hz/1 min

Circuiti considerati: ingresso, alimentazione ausiliaria, uscita relè

Prova di tensione alternata 0,5kV valore efficace 50Hz/1 min

Circuiti considerati: ingresso, al. ausiliaria, uscita relè verso uscita sensori

Prova di tensione alternata 2kV valore efficace 50Hz/1 min

Circuiti considerati: tutti i circuiti e massa

Prova di tensione a impulso 4kV 1,2/50µs 0,5J

Circuiti considerati: ingresso, alimentazione ausiliaria, uscita relè

COMPATIBILITA' ELETTROMAGNETICA

Prove di emissione in accordo con EN/IEC 61326-1

Prove di immunità in accordo con EN/IEC 61326-1

CONDIZIONI AMBIENTALI

Temperatura di riferimento: 23°C ± 1°C

Temperatura di impiego: 5...40°C

Temperatura di funzionamento: -10...55°C

Variatione indice di classe: ±0,03% / °C

Temperatura di magazzino: -40...70°C

Umidità relativa: 20...80% senza condensa

Adatto all' utilizzo in clima tropicale

Massima potenza dissipata¹: ≤ 3,6W

¹Per il dimensionamento termico dei quadri

CUSTODIA

Custodia: incasso (foratura pannello 92x45mm)

Frontale: 96x48mm

Profondità: 103mm

Conessioni: faston 6,3x0,8mm

Materiale custodia: makrolon autoestinguente

Grado di protezione (EN60529): IP50 (frontale), IP20 (morsetti)

Opzione: protezione frontale IP54

Peso: 400 grammi

UNITA' INGEGNERISTICA

Etichette autoadesive, fornite con lo strumento

A.C. voltage test 2kV r.m.s. value 50Hz/1 min

Considered circuits: measure, supply, relays output

A.C. voltage test 0,5kV r.m.s. value 50Hz/1 min

Considered circuits: measure, supply, relays output, towards sensor supply output

A.C. voltage test 2kV r.m.s. value 50Hz/1 min

Considered circuits: all circuits and earth

impulse voltage test 4kV 1,2/50µs 0,5J

Considered circuits: measure, supply, relays output

ELECTROMAGNETIC COMPATIBILITY

Emission tests according to EN/IEC 61326-1

Immunity tests according to EN/IEC 61326-1

ENVIRONMENTAL CONDITIONS

Reference temperature: 23°C ± 1°C

Nominal temperature range: 5...40°C

Limit temperature range: -10...55°C

Variation to the class index: ± 0,03% / °C

Limit temperature range for storage: -40...70°C

Relative humidity: 20...80% without condensing

Suitable for tropical climates

Max. power dissipation¹: ≤ 3,6W

¹For switchboard thermal calculation

HOUSING

Mounting: flush mounting (panel cutout 92x45mm)

Front frame: 96x48mm

Depth: 103mm

Connections: fast-on 6,3x0,8mm

Housing material: self-extinguishing makrolon

Protection degree (EN60529): IP50 (front frame), IP20 (terminals)

Option: IP54 front frame protection

Weight: 400 grams

ENGINEERING UNIT

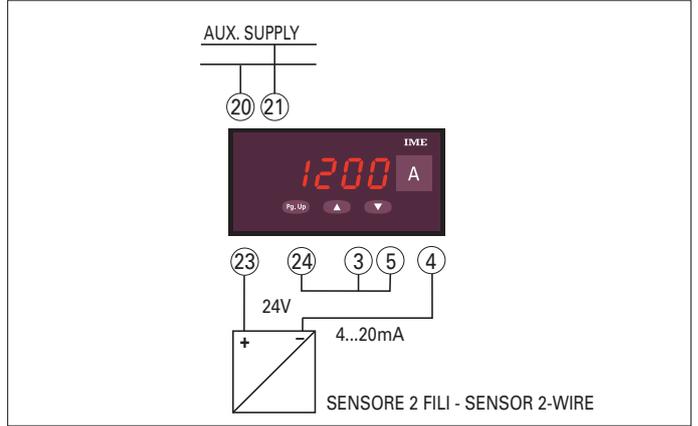
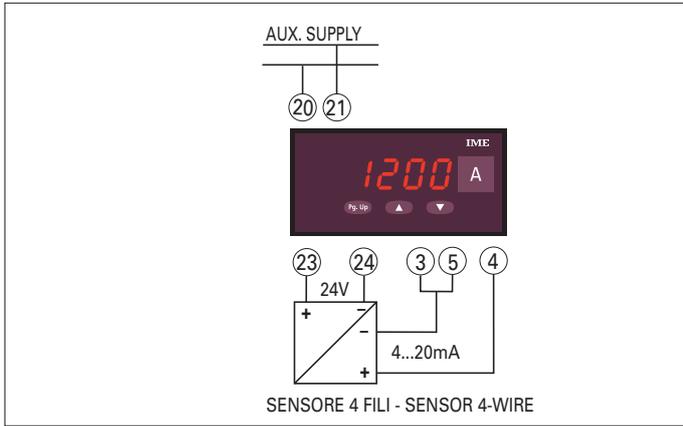
Adhesive label supplied with the meter

A	V	C	%	W	Hz
kW	MW	kg	bar	var	kvar
Mvar	R.P.M.	m/min	Giri/min	kg/cm ²	m ³ /h

ESEMPI IMPIEGO CON SENSORE ESTERNO

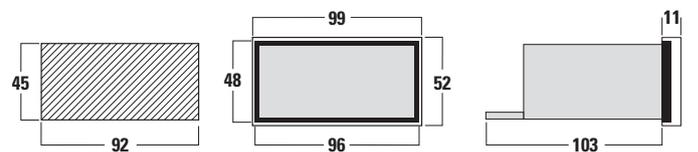
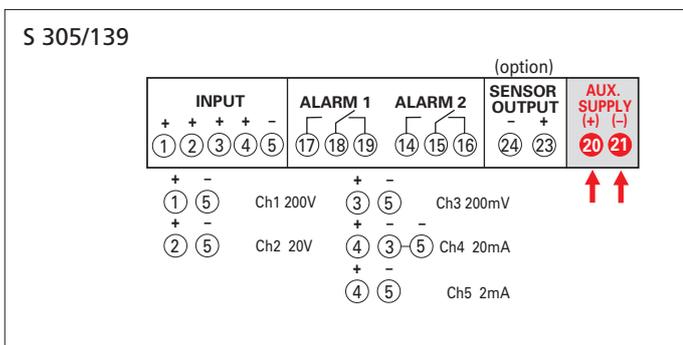
EXAMPLES USE WITH EXTERNAL SENSOR

La I.M.E. S.p.A. si riserva in qualsiasi momento, di modificare le caratteristiche tecniche senza darne preavviso. / I.M.E. S.p.A. reserves the right, to modify the technical characteristics without notice.



SCHEMA D'INSERZIONE WIRING DIAGRAM

DIMENSIONI DIMENSIONS





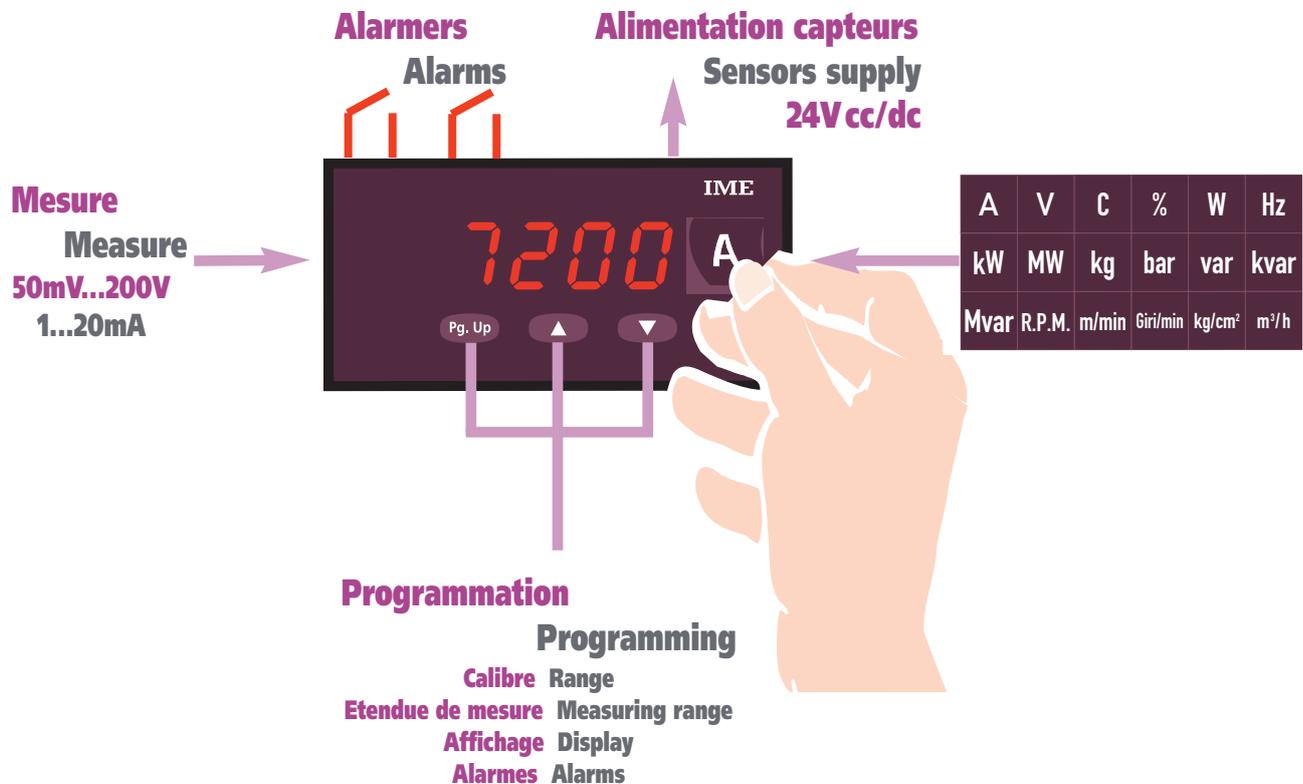
**Indicateur numérique
de tension ou courant
continu et pulsé
96x48 mm**

- Mesure et affichage de tension ou courant continu et pulsé unidirectionnel
- Mesure et affichage de la vitesse, de dynamo tachymétrique
- Affichage de toutes les grandeurs directement proportionnelles à l'entrée courant ou tension
- 5 calibres d'entrée 200mV / 20V / 200V / 20mA / 2mA
- Etendue de mesure programmable 25...100% du calibre
- Affichage programmable
- Mémorisation de la valeur max. mesurée (réinitialisable)
- 2 alarmes programmables
- Sortie 24Vcc pour alimentation capteur (température, pression, niveau, etc.)

**Direct and pulsating
voltage or current
digital meter
96x48 mm**

- To measure and display unidirectional and pulsating current or voltage
- To measure and display speed, from tachometer dynamo
- Display of any proportional quantity directly proportional to input current or voltage
- 5 input ranges 200mV / 20V / 200V / 20mA / 2mA
- Programmable measuring range 25...100% of the range
- Programmable display value
- Storage of highest measured value (resettable)
- 2 programmable alarms
- External sensor supply output 24Vdc (temperature, pressure, level, etc.)

DGY10K/2



REFERENCE ORDERING CODE	ALIMENTATION AUXILIAIRE AUX. SUPPLY		USCITA OUTPUT	SORTIE OUTPUT
	ca / ac	cc / dc		
2003 1496	24V	-	-	2
2006 1496	115V	-		
2010 1487	230V	-		
2013 1496	240V	-		
2023 1496	48V	20...150V		
2025 1496	-	150...250V		
2003 1499	24V	-		
2006 1499	115V	-		
2010 1499	230V	-		
2013 1499	240V	-		

AFFICHAGE

Type d'afficheur: LED rouges, 7 segments

Hauteur des chiffres: 14mm

N° de points d'affichage: 10.000 (4 chiffres)

Indication maximum: 9999

Unité de grandeur: personnalisable par l'utilisateur (étiquette adhésive)

Indication dépassement (affichage > 9999): indication " _ _ _ "

Echantillonnage de l'affichage: 3 lecture/s

Echantillonnage de la mesure: 3 lecture/s

Mémorisation de la valeur max. mesurée (réinitialisable)

Précision (par rapport au calibre mesuré): $\pm (0,25\% + K) + 1$ digit

$K = 0,2 \frac{\text{calibre}}{\text{étendue de mesure}}$ quand:

Calibre = 200mV ou. 20V ou. 200V ou. 20mA ou. 2mA

Etendue de mesure = fond d'échelle - début d'échelle (0-200V = 200, 4...20mA = 16)

Ex.: calibre 200mV

étendue de mesure 0...150mV

Précision = $0,25\% + 0,2 \frac{200}{150} = 0,5\% + 1$ digit

¹ avec entrée courant ou tension continu

PROGRAMMATION

Programmation des paramètres: 3 touches en face avant

Conservation des paramètres de configuration: mémoire permanente (EEPROM) sans batterie

Accès à la programmation: combinaison de touches

PARAMETRES PROGRAMMABLES

Calibres (Un / In): 200mV - 20V - 200V - 20mA - 2mA

Etendue de mesure: min. 0...0,25Un / In • max. 0...Un / In

AFFICHAGE

Début d'échelle: 0...9999 digit

Fond d'échelle: 0...9999 digit

Point décimal: 00.00 - 000.0 - 0000

Remise à zéro de la valeur max. mesurée

Alarms: type, seuil, hystérésis, temporisation, état du relais

ALARMES

Alarms programmables: 2

Type: programmable minimum et/ou maximum

Seuil: programmable -1999...1999 digit

Hystérésis: programmable -1999...1999 digit

DISPLAY

Type of display: 7 segments, red LED's

Digit height: 14mm

N° of display points: 10.000 (4 digit)

Maximum display: 9999

Engineering unit: user-customizable (adhesive label)

Overrange indication (display > 9999): indication " _ _ _ "

Display update: 3 readings/s

Measure update: 3 readings/s

Storage of highest measured value (resettable)

Accuracy ¹ (referred to the measuring range): $\pm (0,25\% + K) + 1$ digit

$K = 0,2 \frac{\text{range}}{\text{measuring range}}$ where:

Range = 200mV or. 20V or. 200V or. 20mA or. 2mA

Measuring range = full scale - offset (0-200V = 200, 4...20mA = 16)

Ex.: range 200mV

measuring range 0...150mV

Accuracy = $0,25\% + 0,2 \frac{200}{150} = 0,5\% + 1$ digit

¹ with direct voltage or current input

PROGRAMMING

Parameters programming: front keyboard, 3 keys

Hold of configuration parameters: EEPROM memory, non volatile, no battery

Programming access: keys combination

PROGRAMMABLE PARAMETERS

Range (Un / In): 200mV - 20V - 200V - 20mA - 2mA

Measuring range: min. 0...0,25Un / In • max. 0...Un / In

DISPLAY

Offset: 0...9999 digit

Full scale: 0...9999 digit

Decimal point: 00.00 - 000.0 - 0000

Reset of highest measured value

Alarms: type, set-point, hysteresis, delay, relay state

ALARMS

Programmables alarms: 2

Type: programmable min. and/or max.

Set-point: programmable -1999...1999 digit

Hysteresis: programmable -1999...1999 digit

Temps d'intervention : $\leq 500\text{ms}$
Temporisation : programmable 0...60s (par pas de 1s)
Précision de la temporisation: $\pm 10\%$
Temps de remise à zéro: $\leq 500\text{ms}$
Sortie: 2 relais avec contact SPDT, libre de potentiel
Etat du relais: programmable, normalement excité ou désexé
Calibre contact: 5A 250Vca - 0,5A 100Vcc
Précision¹ (par rapport au calibre mesuré): $2 (0,25\% + K) + 1 \text{ digit}$

$$K = 0,2 \frac{\text{Calibre}}{\text{étendue de mesure}}$$

¹ avec entrée courant ou tension continu

Affichage du franchissement de l'alarme: LED allumée "AL"

ENTREE

Raccordement: direct

Mesure: tension ou courant continu ou pulsé, valeur moyenne

Forme d'onde: continu ou pulsé avec fréquence $\geq 50\text{Hz}$

TENSION NOMINALE Un: 200mV - 20V - 200V

COURANT NOMINAL In: 20mA - 2mA

Etendue de mesure programmable

Etendue de mesure max: 0...Un ou 0...In

Calibre minimum mesuré: 0...0,25Un ou 0...0,25In

Possibilité de sélectionner n'importe quelle valeur entre la plus haute et la plus basse pour obtenir l'étendue de mesure souhaitée

Impédance d'entrée / chute de tension: voir tableau

Surcharge permanente: 1,2Un - 1,2In

Surcharge instantanée: 2Un/5s - 2In/5s

Exemples d'étendues de mesure sélectionnables:

Calibre Range	200mV	20V	200V	20mA	2mA
Etendue de mesure Measuring range	0...200mV	0...20V	0...200V	0...20mA	0...2mA
	0...150mV	0...10V	0...150V	0...10mA	0...1mA
	0...100mV	0...5V	0...100V	0...5mA	
	0...60mV	1...5V		4...20mA	
	0...50mV	2...10V	0...50V		
Impédance d'entrée Input impedance	$\geq 20\text{k}\Omega$	$\geq 200\text{k}\Omega$	$\geq 4\text{M}\Omega$		
Chute de tension Voltage drop				$\leq 2\text{V}$	$\leq 200\text{mV}$

SORTIE ALIMENTATION CAPTEUR

Pour alimenter des transducteurs externes (technique 2 ou 4 fils)

Isolée galvaniquement de l'entrée et de l'alimentation auxiliaire

Valeur nominale: 24Vcc (non stabilisé)

Variation: 15...30Vcc

Courant maximum: 30mA

ALIMENTATION AUXILIAIRE

Valeur nominale Uaux ca: 24 - 48 - 115 - 230 - 240V

Variation admissible: $\pm 10\%$ Uaux - 40...60V(Uaux 48V)

Fréquence nominale: 50Hz

Fréquence de fonctionnement: 47...63Hz

Autoconsommation: 5VA

Valeur nominale Uaux cc: 20...150Vdc - 150...250Vdc

Autoconsommation: 3W

Protection contre l'inversion de polarité

ISOLEMENT

(EN/IEC 61010-1)

Catégorie de l'installation: III

Degré de pollution: 2

Intervention time: $\leq 500\text{ms}$

Delay: programmable 0...60s (1s step)

Delay accuracy: $\pm 10\%$

Reset time: $\leq 500\text{ms}$

Output: 2 relais with SPDT contacts, potential free

Relay state: programmable norm. energised or de-energised

Contacts range: 5A 250Vac - 0,5A 100Vdc

Accuracy¹ (referred to the measuring range): $2 (0,25\%+K) + 1 \text{ digit}$

$$K = 0,2 \frac{\text{range}}{\text{measuring range}}$$

¹with direct voltage or current input

Alarms intervention display: "AL" LED on

INPUT

Connection: direct

Measurement: direct or pulsating current or voltage, average value

Waveform: direct or pulsating with frequency $\geq 50\text{Hz}$

VOLTAGE RATING Un: 200mV - 20V - 200V

CURRENT RATING In: 20mA - 2mA

Programmable measuring range

Max. measuring range: 0...Un or 0...In

Min. measuring range: 0...0,25Un or 0...0,25In

It is possible to select any value between the lowest and the highest one obtaining the desired measuring range.

Input impedance / voltage drop: see table

Continuous overload: 1,2Un - 1,2In

Istantaneous overload: 2Un/5s - 2In/5s

Example of selectable measuring ranges:

SENSOR SUPPLY OUTPUT

To feed external transducers (2 or 4 wire technique)

Galvanically insulated from input and auxiliary supply

Rated value: 24Vdc (not stabilized)

Tolerance: 15...30Vcc

Maximum load: 30mA

AUXILIARY SUPPLY

Rated value Uaux ac: 24 - 48 - 115 - 230 - 240V

Tolerance: $\pm 10\%$ Uaux - 40...60V(Uaux 48V)

Rated frequency: 50Hz

Working frequency: 47...63Hz

Rated burden: 5VA

Rated value Uaux dc: 20...150Vdc - 150...250Vdc

Rated burden: 3W

Protected against incorrect polarity

INSULATION

(EN/IEC 61010-1)

Installation category: III

Pollution degree: 2

Tension d'essai 2kV valeur efficace 50Hz/1 min

Circuits considérés: entrée, alimentation auxiliaire, sortie relais

Tension d'essai 0,5kV valeur efficace 50Hz/1 min

Circuits considérés: entrée, alimentation auxiliaire vers sortie capteur

Tension d'essai 2kV valeur efficace 50Hz/1 min

Circuits considérés: tous les circuits et la masse

Tension d'essai 4kV impulsions normalisée 1,2/50µs 0,5J

Circuits considérés: entrée, alimentation auxiliaire, sortie relais

COMPATIBILITÉ ELECTROMAGNETIQUE

Test d'émission selon EN/IEC 61326-1

Test d'immunité selon EN/IEC 61326-1

CONDITIONS D'UTILISATION

Température de référence: 23°C ± 1°C

Température limite d'utilisation: 5...40°C

Température de fonctionnement: -10...55°C

Variation de l'indice de classe: ±0.03% / °C

Température de stockage: -40...70°C

Humidité relative: 20...80% sans condensation

Adapté pour l'utilisation en climat tropical

Puissance max. dissipée¹: ≤ 3,6W

¹Pour le dimensionnement thermique du coffret

BOITIER

Boîtier: encastré (découpe panneau 92x45mm)

Face avant: 96x48mm

Profondeur: 103mm

Raccordement: faston 6,3x0,8mm

Matériau du boîtier: makrolon autoextinguible

Degré de protection (EN60529): IP50 (face avant), IP20 (bornes)

Option: protection face avant IP54

Poids: 400 grammes

UNITE DE MESURE

Étiquettes adhésives, fournies avec l'appareil

A.C. voltage test 2kV r.m.s. value 50Hz/1 min

Considered circuits: measure, supply, relays output

A.C. voltage test 0,5kV r.m.s. value 50Hz/1 min

Considered circuits: measure, supply, relays output, towards sensor supply output

A.C. voltage test 2kV r.m.s. value 50Hz/1 min

Considered circuits: all circuits and earth

impulse voltage test 4kV 1,2/50µs 0,5J

Considered circuits: measure, supply, relays output

ELECTROMAGNETIC COMPATIBILITY

Emission tests according to EN/IEC 61326-1

Immunity tests according to EN/IEC 61326-1

ENVIRONMENTAL CONDITIONS

Reference temperature: 23°C ± 1°C

Nominal temperature range: 5...40°C

Limit temperature range: -10...55°C

Variation to the class index: ± 0,03% / °C

Limit temperature range for storage: -40...70°C

Relative humidity: 20...80% without condensing

Suitable for tropical climates

Max. power dissipation¹: ≤ 3,6W

¹For switchboard thermal calculation

HOUSING

Mounting: flush mounting (panel cutout 92x45mm)

Front frame: 96x48mm

Depth: 103mm

Connections: fast-on 6,3x0,8mm

Housing material: self-extinguishing makrolon

Protection degree (EN60529): IP50 (front frame), IP20 (terminals)

Option: IP54 front frame protection

Weight: 400 grams

ENGINEERING UNIT

Adhesive label supplied with the meter

A	V	C	%	W	Hz
kW	MW	kg	bar	var	kvar
Mvar	R.P.M.	m/min	Giri/min	kg/cm ²	m ³ /h

