TECHNICAL DATA SHEET

FAMETRONIC XPRO

Generic Name by SUCAMEC: ELECTRIC - ELECTRONIC DETONATOR

DESCRIPTION AND COMPOSITION:

The FAMETRONIC XPRO is an electronic delay detonator, part of the FAMETRONIC XPRO SYSTEM. It consists of a copper detonator, a plastic plug, a shielded cable, two labels: the first one is for numerical identification with a bar code and the second one for traceability, and finally it has a double contact connector per conductor to make the connection to the main firing line in a safer way.

The FAMETRONIC XPRO Electronic Detonator features the following components:

- **Detonator:** Consisting of a copper capsule with a No. 12 detonator. An electronic card (for identification, communication and programming of delay times) and a pyrotechnic drop for the initiation of the explosive mass.

- **Armored cable:** It carries 2 steel conductors coated in copper with a first PVC sheath and with polypropylene reinforcement which allows it to provide the product with superior resistance to abrasion and mechanical tractions during its use in the field, at which end it carries the Fulminant and at the other end it carries its identification label together with a connector.

- **Plastic connector:** Two-piece high-density polyethylene plastic piece: cap and base, containing inside two tropicalized iron blades connected to the armored cable, silicone gel and dielectric grease.

- **Labeling:** The identification of the card is done by means of a unique identification code (ID) in memory, which is present on the identification label in the form of a bar code and in numerical form. It also has a second label to perform traceability of the product in the supply chain.

USES:

The FAMETRONIC XPRO Electronic Detonator is used in electronic initiation systems for blasting applications in surface mining, subway, quarries and civil works.

The handling temperature range of the FAMETRONIC XPRO electronic detonator is from 0°C to 60°C. For different temperatures it is recommended to contact the Technical Assistance area.

The FAMETRONIC XPRO electronic detonator has a cable resistant to cuts and abrasions during operation; it is water resistant; it offers high safety against electric currents, static discharges, immunity to radiofrequency, dynamic pressure, improved fragmentation, reduced vibration and high accuracy in programming delay times; and it has unique identification codes for a correct record in operation and traceability.

- **ELECTRONIC DETONATOR**

	UNIT	FAMETRONIC XPRO ELECTRONIC DETONATOR
Detonator diameter	mm	7.35
Detonator length	mm	80
Detonator material	---	Copper
Detonator Power	No.	12
Charging base	---	PETN

Resistance to hydrostatic pressure for 2 hours	kg/cm^2	7.0
Trauzl Volume	cm^3	34
Resistance to Impact 2 kg/1m	---	It does not detonate
Delay time	ms	0 to 20 000
Accuracy	---	> 2000 ms ----- CV: 0.025% < 2000 ms ----- ± 1ms
Electrostatic discharge resistance 30kv/2500pF	---	It does not detonate
Immune to radio frequency		Yes
Operation Logging and Traceability	---	Unique ID numbers

The values expressed are results at normal conditions (20°C and 1 atm.)

- **ARMORED CABLE**

	UNIT	**FAMETRONIC XPRO ELECTRONIC DETONATOR**
Conductor material	---	Copper coated steel
Coating	---	Polypropylene and PVC
Color	---	Yellow with red stripe
Total diameter	mm	3.5
Abrasion resistance	Cycles	Min. 1600
Resistance to rupture	Kg-f	Min. 36.0

PACKAGING:

Packaging 1.1B

	BOX MATERIAL	BOX CAPACITY (Pcs.)	NET WEIGHT (Kg)	GROSS WEIGHT (Kg)	OUTER DIMENSIONS (cm)
FAMETRONIC XPRO 6 m	Cardboard	60	6.0	7.4	30.3 x 58.7 x 27.5
FAMETRONIC XPRO 10 m	Cardboard	60	10.3	11.7	30.3 x 58.7 x 27.5
FAMETRONIC XPRO 15 m	Cardboard	45	9.9	11.3	30.3 x 58.7 x 27.5
FAMETRONIC XPRO 20 m	Cardboard	35	10.7	12.1	30.3 x 58.7 x 27.5
FAMETRONIC XPRO 30 m	Cardboard	22	9.7	11.1	30.3 x 58.7 x 27.5
FAMETRONIC XPRO 40 m	Cardboard	18	10.3	11.7	30.3 x 58.7 x 27.5
FAMETRONIC XPRO 60 m	Cardboard	12	10.1	11.5	30.3 x 58.7 x 27.5

Net and gross weights are approximate values.

TRANSPORT:

Class   : 1
Division : 1.4B
UN No.   : 0255

1.4

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STORAGE AND WARRANTY:

FAMETRONIC XPRO should be stored in magazines at **temperatures between 0°C and 30°C**, located in safe, well ventilated, dry areas, protected from rain and heat. Also, the explosive inventory should be rotated, avoiding the use of new materials before using old ones. And it must be stored according to the current compatibility table of the relevant authority.

FAMETRONIC XPRO kept in its original packaging and stored in the above-mentioned temperature conditions has a **warranty period of 36 months** after its production date.

WARNING:

FAMESA EXPLOSIVOS S.A.C. has safe products, but they may become dangerous elements in inexperienced hands.

The purchaser or user must comply with the applicable regulations during transport, storage and use, as well as train duly all its personnel involved in its loading and handling, providing mechanical aids for loads over 25 kg per person.

FAMESA EXPLOSIVOS S.A.C. assumes no liability for transport, storage and/or improper use their products may experience.

The information and recommendation described in this document do not necessarily cover all product applications nor the different conditions under which it is being used. These are based on the experience, research and tests done by Famesa Explosivos S.A.C., who does not guarantee favorable results nor assume any responsibility, expressed or implied, in relation to the use of these suggestions. This product may be changed without prior notice.