

INSTRUCTIONAL EQUIPMENT REQUEST Due in Dean/Unit Head's Office on September 19, 2011 (FALL) and March 1, 2011 (SPRING)

The Definition of Instructional Equipment can be found in the California Community College's Budget and Accounting Manual. A copy of these definitions is on the PBC webpage:

http://grapevine/pbc/InstructionalEquipment.php

Name of Requestor:	David Everett / Tom Fuller			
Division/Unit	MSEPS III Horticulture			
	equipment or materials being milar, related or part of a system.	Rainmaster E	agle Series Irrigatio	n Controller
requested must be si	illiar, related or part of a system.		Item(s) Cost	\$ 2639.07
	cost and total cost including tax and sh		Tax (0.0875)	\$ 230.92
	ncluding installation, modification to e te new equipment, etc.): This should c	-	Shipping	\$ N/A
from the vendor quote.	······································		Installation	\$ N/A
A44 - 1	(-) (-	_	Facilities Modification	\$ N/A
	(s), estimate(s) and requisition(s) equisition; absence of either will	:	Other	\$
delay processing)	•			\$
			Total Cost	\$ 2869.99
Brief description of s	pecific equipment or materials re	quested and wh	nat they will be used fo	r: (include
the # pieces being red	quested; i.e.: 10 crayola crayons,	sky blue, etc. ir	n 250 words or less)	
unit will bring the cumodern technology greenhouse, and ex The unit can be ope controller will be us of course, keep plants this in your Program		estem out of the later application and outside we wat the valve classes on the lated.	e dark ages and into n in the Horticulture y the perimeter of the e station" tests and a he latest technology	o the present with yard, shade room, Horticulture yard. adjustments. The and the unit will
Also mentioned in F	rticulture program review, we a Program Review is the enhand n belt in the existing horticulture schedule.	cement efforts	of the horticulture y	ard(s). We have

Please explain?

The current irrigation control system is VERY dated technology-the best we can tell, the current controllers date back to the 1970's and at over 40 years old, is quite possibly a hazard to operate. The "analog" technology is not currently practiced with a large application such as
the Horticulture yard. The controller will not only manage the huge responsibility of keeping plants alive but it will serve as a valuable educational component for all of the Horticulture classes. This controller is currently considered "industry standard".
We have expanded the green belt in the existing horticulture yard with numerous new areas that require an advanced watering schedule. This controller system will not only be critical as
an advanced instructional tool but it will be extremely effective in keeping up with the various watering needs of the plantings horticulture yard, 2 greenhouses, shade room, citrus/fruit area
and flower beds.

Following is the evaluation criteria; please see corresponding Instructional Equipment Rubric.

In	etru	ctions	al and	Service	Impact
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How will this item have a positive impact on instruction and/or teaching and learning in the classroom? Is this for use by the Instructor or students, or both?

This piece of equipment will have an immense impact on instruction and teaching and learning in the classroom. Currently the Horticulture instructors are using VERY outdated equipment to instruct with. The equipment being used to instruct students with is no longer in production making instruction completely pointless. This is equipment the students and the instructor will be using.

Impact on Enrollment

Will the equipment impact enrollment, attract or increase the number of students participating in a course Knowing that the horticulture department is upgrading its instructional equipment will be a positive step towards impacting enrollments. Students today expect modern equipment to be used for instruction. I see a definite spike in enrollment-not due directly to this small piece of the upgrade puzzle but due to the program stepping into the present day with its instructional; equipment offerings.

Access

How does this item promote the principles of universal design, by providing oppo	rtunities for under-
represented populations & accommodate students with diverse learning styles?	

the handheld remote will be a key component to accessibility and universal design. Students
can remain on the hardtop and not have to be in the mud/dirt etc; to be instructed on the use of this equipment.
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Outcomes

How will this equipment enable or enhance SLOs? What are the consequences related to learning outcomes if request is not funded?

outcomes in request is not funded:
This controller w/remote will enhance our SLO's with more current ones. Not having this controller will bode poorly on the reputation of the Horticulture department and SLO's related to irrigation system management will be compromised. Also, outdated equipment now
watches over the plants and student projects relative to SLO's. Dead plants=dead SLO's.

Total Cost of Ownership (This is an attempt to identify what the ongoing costs of purchasing this equipment will be to the institution)

- a) What is the lifespan of the equipment? 5 years? 10 years? 20 years?
- b) Is there sufficient current/planned space available for the storage and use of this equipment? If so, where will it be housed? If not, is there a proposed location and are there any costs associated with installation or modifications to the space?
- c) Are there operating costs and how will they be covered by the department?
- d) What will be required to maintain the equipment, such as regular servicing or upkeep? Who will perform maintenance, and what will the estimated costs be?

ZERO	cost	of	owr	ership	١.

lifespan? heck, poorly made equipment (that we are utilizing now) has lasted 40 years. This unit could easily go that long

This unit has a designated place hanging on the wall

No costs associated with installation or modifications to the space. It will be installed by the instructors.

ZERO operating costs.

ZERO maintenance or upkeep.

Visibility/Profile within Community
Is this a "flagship" item that will bring recognition/notoriety to the College or raise the stature of the program? Will it attract students and/or enhance the image of the College in the community because of its rare, one-of-a-kind status?

Flagship? Doubtful but it would be a shining star among all the outdated equipment currently in place in the department. Word gets out that we are instructing using this unit would look very good to industry professionals. This is a professional level controller that students looking to have a career in Horticulture would eventually be using in the field. (literally)

Sustainability we	ould be what the contro	oller would be sustain	ning: the plants invested in the	nat are
growing in the F SAVING device		buses, shade room ar	id llower beds. It is also a w	atei
	•			
Health, Safety & S	ecurity			
		afety & security concer	ns? If so, please explain below	·.
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NONE			ns? If so, please explain below	
NONE	ent address any health, s		ns? If so, please explain below	

Commitment to Sustainability

FOR REIMBURSEMENT: List payee name & ssn.	# #	0		
SUGGESTED VENDOR: Horizon (925) 551-8383	Track #		0 10 1	
NAME OF STAFF MEMBER DATE WRITTEN DATE REQUIRED DIVISION/ DEPARTMENT For inventory purposes include Room # D FVerett/T Fuller 12=Mar=12 HORT Where equipment will reside:	# E	RETURN COPY of REQUISITION TO: L. Camino	FOR OFFICE USE ONLY OPY of REQUISITION TO: IINO	
(PRODUCT, TYPE, SIZE, COLOR, STOCK NUMBER)	UNIT QTY	5	Air	
le Se	EA	1 \$ 1,615.42	\$ 1,	1,615.42
RIR-58-1032 RME36EG Eagle 36STA controller / Item # 4700780			\$	1
			\$	1
Pro-Max Rainmaster Remote Set Control	EA	1 \$ 1,023.65	\$ 1,	1,023.65
RIR 58-1022			\$	1
			\$	1
Vendor's Quote attached (Quote #1T003507)			\$	1
			\$	1
			\$	1
			\$	1
			\$	
INSTRUCTIONAL EQUIPMENT - SPRING 2012			\$	1
			\$	1
			\$	1
Comments:	Subtotal		\$ 2,	2,639.07
	Tax	\$ 0.0875	\$	230.92
BT#	Shipping (if available):	available):		
Original invoices and receipts must be attached for payment. Include current taxes unless incorporated in price.		TOTAL COST	\$	2,869.99
ACCOUNT # FUND ORG ACCT PROGRAM	Business Office	fice		
APPROVALS Leal 3/19/12 Apply Apply Dean Dean	John John			

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LAC POSITAS COLLEGE Equipment, Apparatus and Service Requisition

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LPC VITICULTURE Customer Pick-Up, Fax 926-466-5271

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LOCATION

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	текма ТЕКМЯ	PAYMENT SC T3N	DAV ID EVERE TT REFERENCE NUMBER	BTAG DATE	EXPIRE DATE \$\text{04}\frac{1}{1}\frac{1}{1}\frac{1}{2}\frac{1}{2}	QUOTE DATE

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ATSƏE 310A3 \$201-83-71FI A3T8AMULAR XAMORY

REMOTE SET RAINMASTER CONTROL

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RAIN MASTER CONTROLLERS

MATER MASTER

RIME Eagle Series Controller



Pro-Max Remote Control

Primary Application

to be performed with a single key operation. dedicated feature keys to allow most functions The easiest remote to use in the industry with

Features:

47001020

manufacturers 24 volt controller Pro Max-U can be used with any

Uses three mechanisms to ensure

system hydraulics Single or multi-station capabilities for testing Independent control of master valve or pump

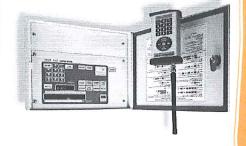
filtering, Factory set receiver access codes,

interference-free communication: Digital

 Fits in shirt pocket and VHF FM communications

32EX EXT FOR PC/TC CONNECTORS	01010074	
32TC TEMP CONNECTOR FOR PROMAX	47001000	
32РС РЕВМ СОИИЕСТОЯ ГОВ РВОМАХ	066000∠₺	
24PC PERM CONNECTOR FOR PROMAX	08600074	
12PC PERM CONNECTOR FOR PROMAX	92600027	
ВРЗ ВАТТЕРУ РАСК РТ5 ТРАИЗМІТТ	02600074	
BP1 BATTERY PACK FOR RME CUTRL	08800074	
B-PM BATTERY FOR PROMAX REMOTE	37800074	
PRO MAX RAIN MASTER ONLY REMOT	07800074	
PRO MAX-UA UNIVERSAL R/M REMOT	09800074	
DESCHIPTION	METI	

PM-SER99 36IN REMOTE CABLE



Primary Application

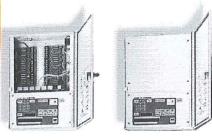
capabilities in an extremely affordable package. ET adjustment, electrical and water-flow alarm saving features, including automatic or manual Powerful satellite controller offering water-

Features:

- Internet control) Automatic daily ET adjustments (via optional Automatic historical ET adjustments
- 4 independent programs with 5 start times and 36 stations Efficient configurations of 6, 12, 18, 24, 30,
- Cycle-and-Soak or conventional programs
- program basis Selectable master valve and pump on a per-Compatible with existing RME products
- Shown with remote control Power outage protection

04700074 47000720 **DESCHIPTION** MHI

RME Sentar Series Controller



Primary Application

five independent start times per program. programs capable of running concurrently with The next generation...four independent

E model Features:

- concurrently programs to be run in a stacked mode or Programmable overlap protection allowing
- offending station and moves on to the next shorts and automatically shuts down the Field wire fault detection identifies field wire
- Built-in remote control capability
- watering day, skip by day, with up to 30 days between Programmable watering days based on a 7

SE-T model Features:

- Heavy-duty membrane keypad offers visual required time during power outages; no batteries indefinitely while timekeeper circuit keeps Non-volatile memory maintains programs
- and brownouts circuit prevents lockups due to power surges Specialized controller power supervisor and audio function keys on the control panel
- reset; no fuses or circuit breakers Electronic overload protection with automatic brogress upon power restoration Capable of resuming any program in

RME-24SE-T SENTAR 24ST W/SURGE	09900027
FME-18SE-T SENTAR 18ST W/SURGE	0590007₽
RME-12SE-T SENTAR 12ST W/SURGE	04900024
RME-6SE-T SENTAR 6ST W/SURGE	47000620
BMPED1 R/MASTER PED RM/RME/SE	0690004
RM36E SENTAR 36 ST 4 PGM CNTRL	0890007₽
RM30E SENTAR 30 ST 4 PGM CNTRL	07800074
RM24E SENTAR 24 ST 4 PGM CNTRL	0990004
RM18E SENTAR 18 ST 4 PGM CNTRL	09900027
RM12E SENTAR 12 ST 4 PGM CNTRL	04900074
PM6E SENTAR 6 ST 4 PGM CONTROL	47000520
DESCRIPTION	METI

RME-36SE-T SENTAR 36ST W/SURGE

RME-30SE-T SENTAR 30ST W/SURGE



08900074

0490004

RME-36EG EAGLE 36STA CONTROLLE 08700074 RME-30EG EAGLE 30STA CONTROLLE 07700074 RME-24EG EAGLE 24STA CONTROLLE 09200024 RME-18EG EAGLE 18STA CONTROLLE 02700074 RME-12EG EAGLE 12STA CONTROLLE RME-6EG EAGLE 6STA CONTROLLER